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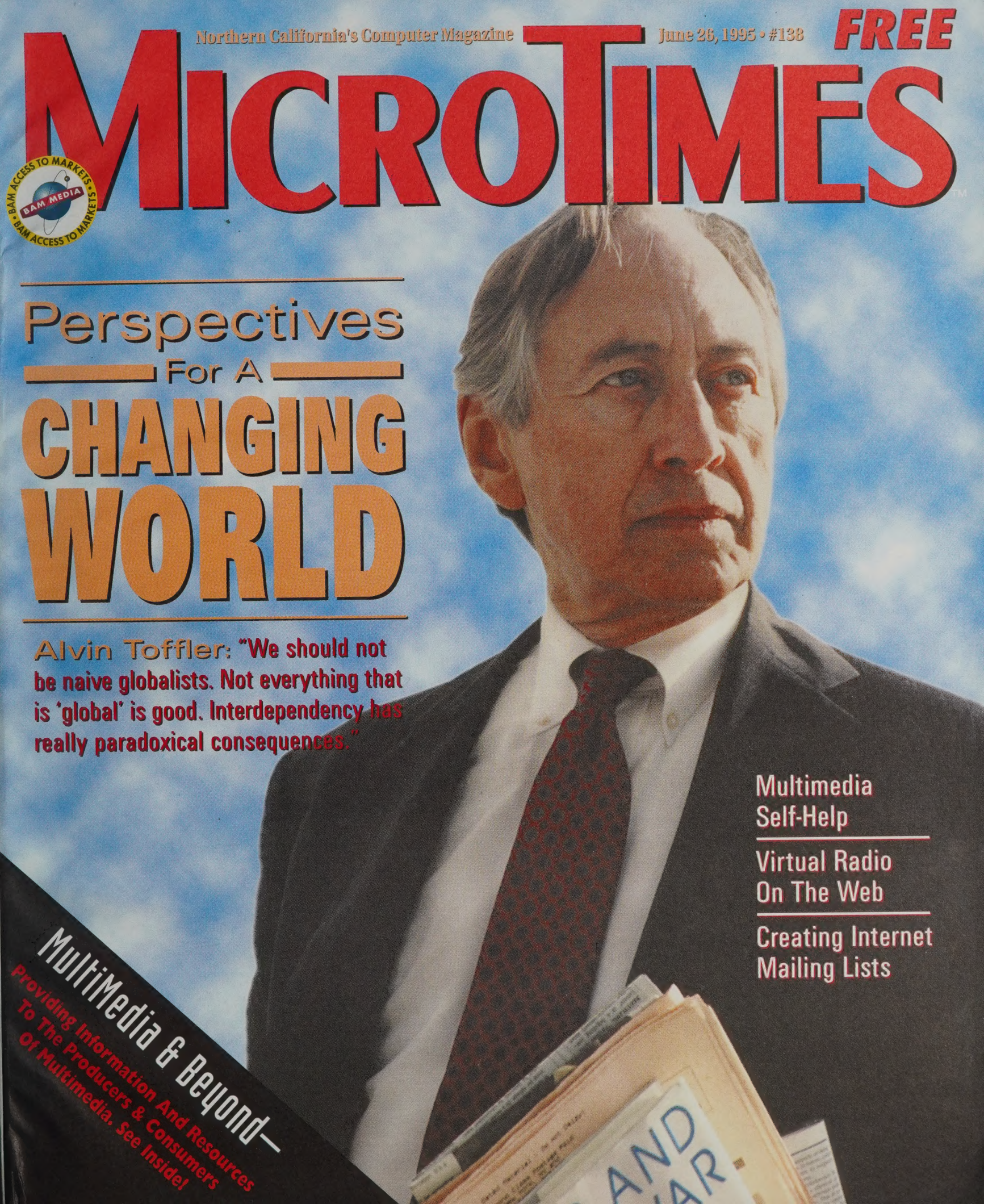

Perspectives For A CHANGING WORLD

Alvin Toffler: "We should not be naive globalists. Not everything that is 'global' is good. Interdependency has really paradoxical consequences."

Multimedia Self-Help

Virtual Radio On The Web

Creating Internet Mailing Lists

MultiMedia & Beyond—

Providing Information And Resources To The Producers & Consumers Of Multimedia. See Inside!

COMPAQ

COMPAQ
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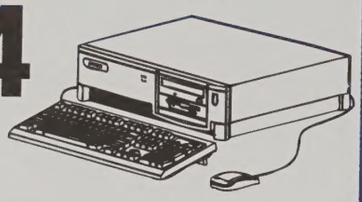
PRESARIO 744 CDS 535MB MULTIMEDIA SYSTEM



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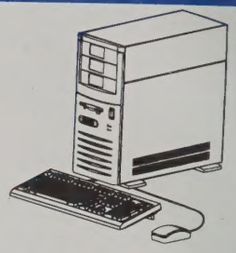

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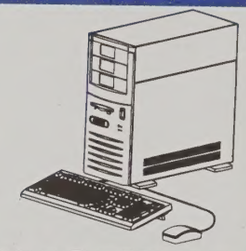

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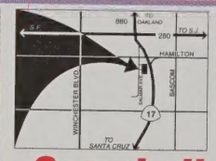

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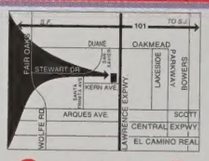

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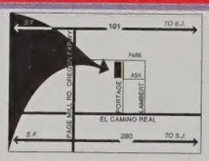

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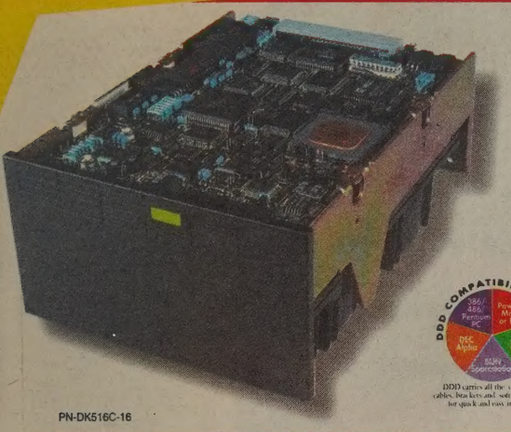

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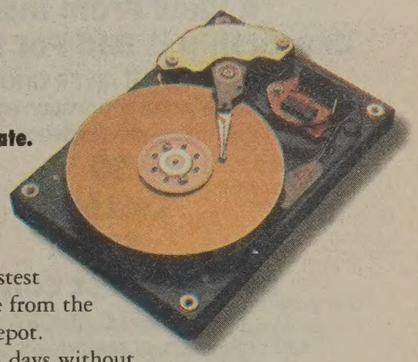

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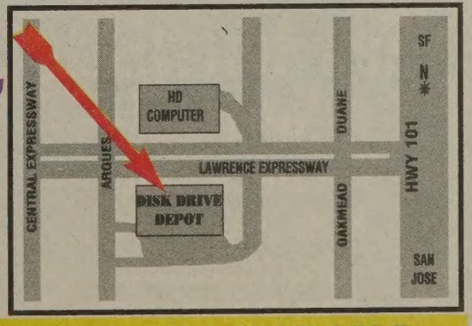

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Contents

MicroTimes™

June 26, 1995 • Issue #138

COVER STORY

170

Perspectives For A Changing World • A Return Visit With Alvin Toffler

BY MARY EISENHART

Since our last interview (January 1994), futurists Alvin and Heidi Toffler have published a new book (*Creating a New Civilization*) and become the toast of Washington. Recently we were able to visit with Alvin Toffler, and once again the conversation was varied and interesting. We hope you have as much fun as we did.

News & Views

16

Industry Insight

BY PAUL HOFFMAN

Windows 95 16
Intel Aims For All-Pentium Market . . . 18
MicroTimes Stock Index 318

22

Realizable Fantasies

BY JIM WARREN

Netsurf for freedom!

28

Guest Editorial

A View From India: Censorship Is Bad For Business

BY RISHAB AIYER GHOSH

Why driving the global information economy underground is ill-advised.

30

Letters

350

Dvorak's Last Column

BY JOHN C. DVORAK

Junk computers, or tomorrow's collectibles?

Business Solutions

42

Laptops

BY ED KAHN

Quarterdeck's Clean Sweep; Zenith's Z-Noteflex.

46

Networking

BY PETER JOHN HARRISON

Remote access to your LAN.

55

Telecommuting

BY ROBERT MOSKOWITZ

Cost savings achieved by telecommuting.

64

UNIX

BY BENNETT FALK

LINUX, the latest UNIX clone.

76

OS/2

BY FABIAN PASCAL

OS/2 and notebook computers.

85

Small Office/Home Office

BY BIRRELL WALSH

WinWord-induced grief; insuring your computer system.

94

Accounting

BY DAVID A. SIMON, CPA, AND JENNIFER ROBIN CHERNISS

Recent trends in tax and accounting software.

Multimedia & Beyond

258

Gulch Gossip

BY JONATHAN E.

Friends of Tucker the Dog, and other fine folks, have assorted adventures.

264

Multimedia 101

BY JONATHAN E.

Analyze your relationship, multimedia-style.

272

Amiga

BY DOUGLAS J. NAKAKIHARA

Alpha Paint—the latest for Toaster users.

280

The Daedalus Encounter: CD-ROM Reaches For The Stars

BY TONY REVEAUX

Real actors meet the game market.

Online Guide

105

Internet

BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

Using mailing lists on the Net.

110

Online Services

BY BILL GRAM-REEFER

AOL debuts Web browser and other Net tools.

New Advertising Section!

Check Out San Francisco Marketplace On Page 247

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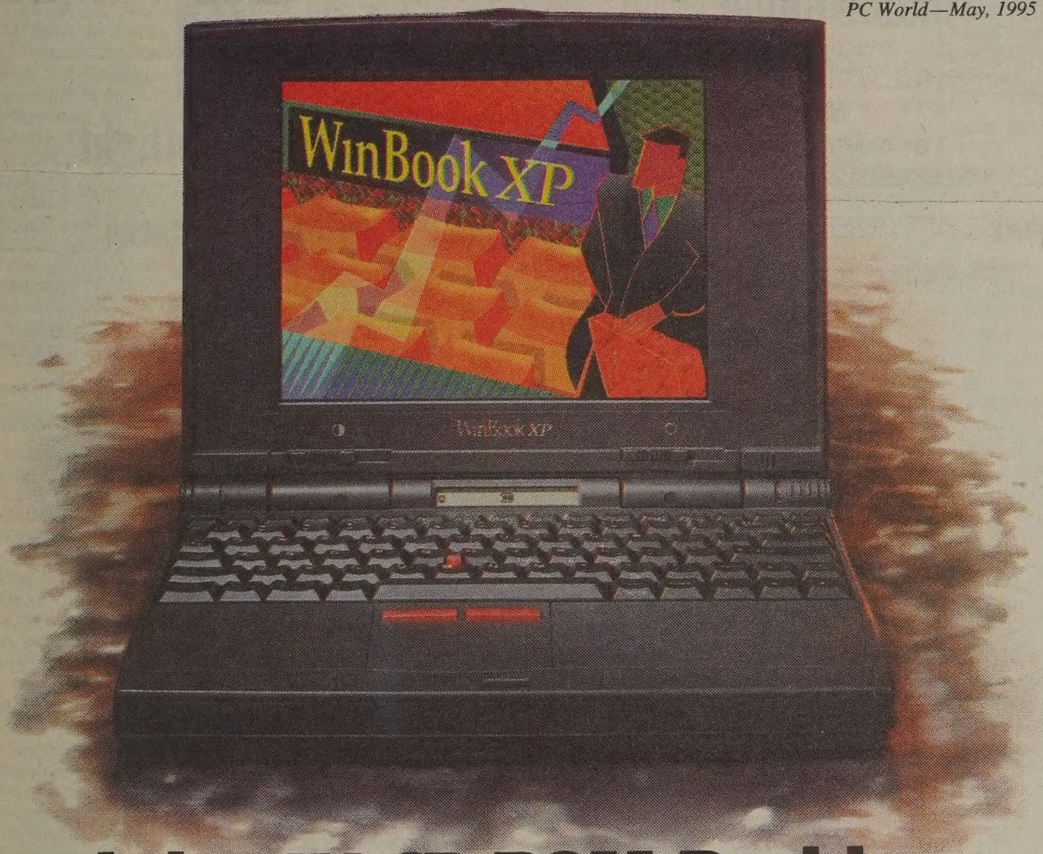
PC World—May, 1995



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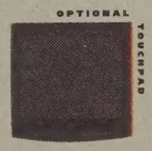

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8/21/95 Intellectual Property	#140
9/18/95 Multimedia	#141
10/16/95 Business On the Internet	#142
11/13/95 Mobile Computing	#143
11/27/95 Fun & Games: The 3rd Annual Holiday Gift Guide	#144
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1/1/96 The MicroTimes 100	#146

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Contents MICROTIMES

June 26, 1995 • Issue #138

Online Guide *continued*

114
MU-SPIN
BY CYNTHIA DYER-BENNET
NASA-funded program helps minority colleges and universities get online.

120
14.4Kbps On Your Radio Dial
BY KEVIN SAVETZ
Radio on the Internet.

124
Web Page Listings

Features

156
What's Right For Writing?
BY SIMSON L. GARFINKEL
A look at four popular Mac word processors.

160
BMUG
BY DAVID MORGENSTERN
Reports from the Apple Developer Conference—Copland and beyond.

242
Nothing To Hide?
BY ROBERT MOSKOWITZ
How to get your friends on board for private communications.

Product Spotlight

255
Product Updates
Reviews

Amiga Software
PC Task 255
WordWorth v3.1 255

CD-ROM
Atari 2600 Action Pack 255
LINKS 386CD 256

Macintosh Software
PhotoFusion v20.3 256
Software Directory For Mac 256

Resources

290
Calendar Of Events
Opportunities In Emerging Technology Conference 290
Mactivity/Web 290

302
User Group Network

332
Classifieds

346
Index Of Advertisers By City

348
Index Of Advertisers

Micro Marketplace
A Special Advertising Section For Bay Area Computer Buyers
Starts On Page 138

LIFETIME LABOR WARRANTY, ONE YEAR PARTS ON ALL COMPUTERS! UPGRADES WELCOME • CALL FOR SYSTEMS NOT LISTED

DELUXE MULTIMEDIA SYSTEMS

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- **8MB RAM**
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- VLB or PCI SVGA Card w/1MB
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- 16-Bit Sound Card & Speakers
- 1.44MB 3.5" Floppy Drive
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- Mini-Tower Case with Power Supply
- FCC 101 Keyboard
- Microsoft Serial Mouse with Pad

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- IDE Controller with I/O
- PCI SVGA Card w/1MB, 64 Bit
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PCI & VLB 486 w/256K FCC (30 & 72 Pin) 115
SIS P5-75/90/100MHz w/256K 158

IBM
Blue Lightning 75MHz 176
SLC2-66 64K 2VLB w/Math . . 150

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Pentium 90 256K 3 PCI w/IDE&IO (16550) 255
Pentium New Chip 260

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1x3-70ns $35
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4x9-70ns, 9 chips 145
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2x32 70ns, 72-pin, 8MB 264
4x32 70ns, 72 pin, 16MB . . . 446
4x36 70ns, 72-pin, 16MB . . . 490

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AMD 486DX2-66MHz, 5V . . . 158
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AMD 486DX4-100MHz, 3V . . 125

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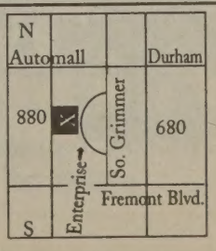

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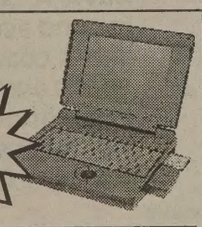

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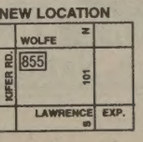

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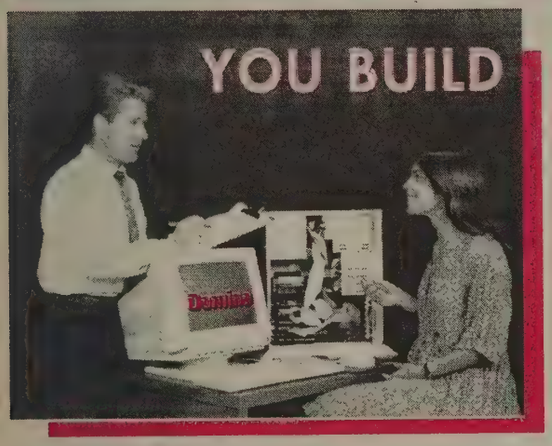

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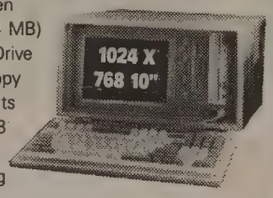

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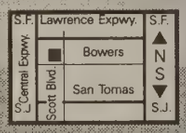

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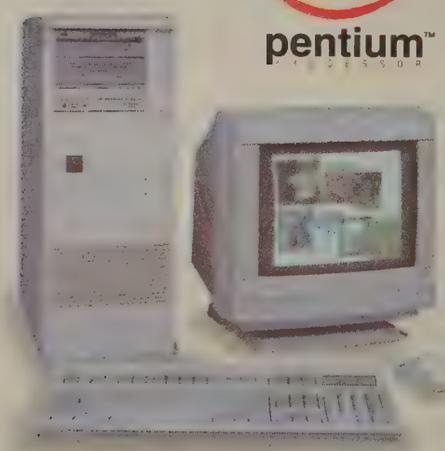

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BY PAUL HOFFMAN

Industry Insight

Windows 95 Stirring Excitement, Trepidation In Testers

Microsoft probably wishes that its legal problems were getting less press than the imminent release of its successor to Windows 3.1. With half a million copies of Windows 95 out in the market, many people are getting a chance to see what using the next generation of operating system will be like. As for any Microsoft product, the early reviews are mixed, and Microsoft is hedging its bets in many ways that are making corporate buyers very nervous.

The good news is that Windows 95 is pretty stable when running most Windows 3.1 and MS-DOS programs. Of course, bugs are being found, but by and large they are the kind of bugs that Microsoft can take care of in the month or two before it must freeze the software in preparation for shipping it at the end of August, its latest committed date. Even before its release, Windows 95 gets a high rating for backward compatibility.

Of course, Windows 95's most visually obvious features are also getting positive reviews from Windows 3.1 users who have gotten tired of the limited usefulness of the older Program Manager. Many people are even calling Windows 95 "Mac-like" (although these are often people who have never really used a Macintosh much). The file and program-launching interface in Windows 95 is also quite solid and reliable, although not as intuitive as many had hoped for.

Microsoft has shipped over four hundred thousand copies of the "final beta" release to almost anyone who sent in $30 so that they could evaluate what it would take to migrate from Windows 3.1. Unfortunately, before the disks were even all out, Microsoft also started to respond to complaints that the installation program did not work properly in many cases, and even when it did, configuring some parts of the operating system was difficult. Microsoft is still changing the installation process, which makes it impossible to use the "final beta" as much of a migration tool except to test existing Windows 3.1 programs, most of which run fine.

Further, the interface of Windows 95 is different enough that users are having a hard time figuring out where to look for particular features. They've been swamping the Windows 95 support lines and online conferences with so many questions that Microsoft admits it is way behind on answering some of the queries. Many beta testers have already given up on testing the software because they can't get it set up properly and are worried that the setup procedure will change significantly by the time the final product is shipped.

> **If Microsoft changes the installation and setup now, the vast majority of the books being written about Windows 95 will be wrong because they relied on not-so-final versions.**

The fact that four hundred thousand people were willing to pay to run buggy software for Microsoft attests to its strength in the software market. However, the mass beta test will also probably slow initial sales of Windows 95 because early testers have found so many installation anomalies and so few software packages that are really optimized for Windows 95. With a much smaller beta test, more companies would have felt compelled to buy more copies of the final version early on. Now there is a great deal of discussion that no one wants to risk the first version from Microsoft.

Some of Windows 95's biggest missteps are in the area of the Internet. This is somewhat surprising given that Microsoft is strongly advocating Internet use and is (finally) building good Internet connection software into the operating system. For example, if you have a SLIP or PPP connection to the Internet, telling Windows 95 that this connection is your primary networking option takes many steps that include uninstalling networking software for hardware you don't have in your system, searching for the three or four different pieces of software you need to make your connection, and setting each one up. The "final beta" contained no information on how to do this, and there was no help available on the steps.

The Windows 95 installer is particularly odd with respect to minimal setups for portable computers. The "final beta" installer puts on less than it needs to, and some parts of Windows 95 hang when the needed parts aren't found. They don't give error messages, they don't crash: they just do nothing. The same has been reported by users doing custom installations following Microsoft's guidelines.

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Insights *continued...*

By the time Windows 95 is released, these problems may be fixed. But if Microsoft changes the installation and setup now, the vast majority of the books being written about Windows 95 (and there will be literally hundreds of them coming out by the end of the year) will be wrong because they relied on not-so-final versions. This is what worries corporate customers the most: that their users will be getting mixed messages about what does and doesn't work in Windows 95.

The fact that Windows 95 works on a 386-based system with 4MB of RAM may expose its speed weaknesses more than if Microsoft insisted that users have 8MB. Windows 95 does run on a 4MB system with a slow CPU; however, it runs so slowly that the user can't tell whether or not it has crashed. Some parts seem to run just fine; others barely run at all. Increasing the RAM to 8MB helps, but not completely. Windows 95 swaps memory on the hard drive much more than Windows 3.1 did, and many people are finding that the speed of their hard drive is a significant bottleneck.

Many observers expect Intel to drop production of 486s (at least for standard computers) within a year.

Thus, the boom in portable PCs could seriously hinder Windows 95. Most of the under-$3000 portable PCs you see advertised come with 4MB of RAM and a not-terribly-fast hard drive. Even if they have fast CPUs, running Windows 95 on them could be an exercise in torture that could send people running back to Windows 3.1. Humorously, these problems are mostly manifested in programs that use Windows 95's new multithreaded capabilities, not older Windows 3.1 programs.

In the past, most speed problems could be solved with a faster processor. However, some experts are saying that until you have at least 12MB in your PC, a faster CPU won't speed up Windows 95 by much since the slowdown is due to a great deal of disk swapping. Thus, Windows 95 may turn out to be unsuitable for many users with PC portables because so few have more than 8MB in them, and the vast majority have only 4MB. With RAM prices rising and staying high for the foreseeable future, and with the speed of portable hard drives not getting much faster, people with more than one computer may choose to wait a year or more before upgrading to Windows 95.

Intel Aiming For All-Pentium Market

Regardless of the needs of Windows 95, the

continued on page 316

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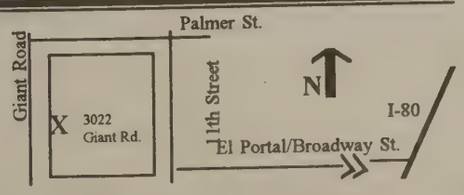

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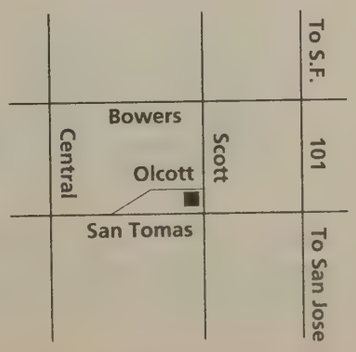

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REALIZABLE FANTASIES • BY JIM WARREN

It's Action Time, Folks. *Mount Up!*

Make Waves. Netsurf For Freedom! Now!!

I thought we had until next year's election season before we needed to do this.

But we can't wait.

1. The irresponsible overreactions to the Oklahoma City lunacy by the posturing Democratic administration and the pandering Republican Congress—with their Orwellian proposals for a high-tech police-state surveillance bureaucracy—have changed everything. (See columns in November, January, March, and May *MicroTimes* for details of government's threats, now wildly escalating with Oklahoma as their excuse.)

2. *Current* federal, state, and local legislative and policy efforts to censor our speech and press, suppress our access to public information, and impose by-the-minute pricing on our every communication—thus aborting our effective participation in our own governance—escalate the need for citizen action.

3. And arrogant efforts within state and local executive and judicial branches to hold back the sunrise; to refuse at-cost or "free" [tax-prepaid] public access to tax-funded, already-computerized *public* records in their *useful* [digital] forms, scream out for redress. California's legislature makes its records freely available via the Internet, and receives about sixty thousand electronic requests per month. It's time for the other two branches of government to accept the future.

It's clear that we must act. *Now.*

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The Internet and everything connected to it—e.g., the higher-priced commercial nets like Compu$erve, Plodigy, AOL, etc.—is the next century's Great Equalizer. It can empower politically *irresistible* grassroots citizen action at the federal and state levels—if we use it before we lose it.

BBSes (bulletin board systems) and community nets—at least those that are not controlled or censored by government owners—are the best weapons that citizens can use to defend themselves against unresponsive or oppressive local government. They can empower diligent citizens to regain *community* control of what has become government of the politicians, by the bureaucrats, for the special interests.

No longer must we be handsome or beautiful, wear a suit, walk precincts, nor subvert ourselves to the dictates of established political organizations in order to have potent political power. Here's the viable alternative.

Math Prerequisite

Every experienced politician is an expert mathematician—well, at least to the extent of knowing the following arithmetic at a knee-jerk, autonomic level:

(Keep in mind that politics is persuasion, and all action is local.)

Let's say a state or federal legislative district has about 500,000 population. Sounds like we have to persuade 250,000 people to vote your way. Forget it!—sez the naive citizen.

But perhaps 20% are children. Okay, that's 400,000, and maybe we have to persuade 200,000. Still too hopeless for folks without bad haircuts and funny accents (as billionaire Ross Perot described himself).

But only about 60% of the adults are registered to vote—about 240,000 voters. And they're identifiable; their names are a matter of public record. (Of course incumbents who already have voters' names and other mechanisms to contact them, and machine politicians who use graveyard voters, would love to make voter registrations secret—to protect voter privacy, of course. Worse still, some folks want to have the power to impose their will on everyone else—as voters—but nonetheless want to keep their identity secret from those whom they will thus impact. But that's a different issue.)

Okay, 240,000 registered voters still means we'd have to persuade 120,000—too many for Joe and Josephine Citizen.

But only about 60% of those who are registered actually vote—and they are

❋ ❋ ❋ ❋ ❋

The Internet, and everything connected to it, is the next century's ***Great Equalizer.*** It can empower politically irresistible grassroots ***citizen action*** at the federal and state levels—if we use it ***before we lose it.***

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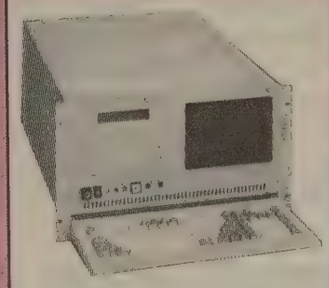

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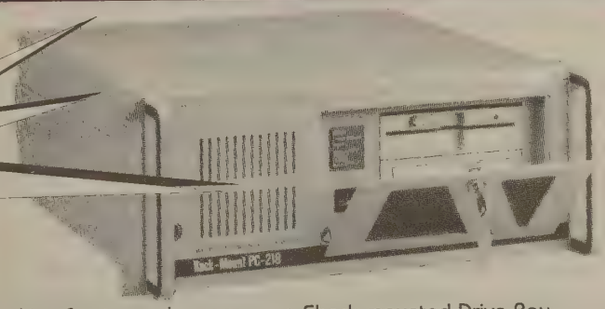

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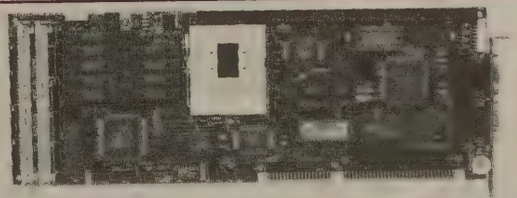

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reasonably identifiable, either because registrar records show they voted in the last major election or list them as recent registrants. That's about 150,000. Then do we have to persuade 75,000? Nope!

In even the most trivially contested election, typically the incumbent will win by less than 70% (about 100,000 votes).

But here's the real kicker!—seriously contested elections are *typically decided by less than 10% of those voting.*

Hot dang! That means that, if we can persuade 15,000 voters, we win. In fact, it's even better than that:

If we can swing 7500—5% of the voters—from the opposing side to our side, then we can often personally control an election in a 500,000-population district!

(O' course, identifying that 7500 is nontrivial, but nobody said freedom was easy.)

Net Power

So how can the computer nets be used?

Only 4% to 8% of US adults are connected to the Internet, and the same political arithmetic probably applies to net folks as to the general population. So the nets *might* be useful for *effective* direct advocacy—*if* we could identify all the netvolks in the target district. But we can't. Bummer!

However, the political power of the nets is not so much in their ability to *directly* reach voters.

The real power of the nets is their utility for coordinating and facilitating outreach for grassroots advocacy—at almost NO financial cost to the advocates (*if* we can continue to avoid per-minute and per-byte usage fees and assure equal access as something more than cash-emitting couch potatoes!).

How To Use It: Nuts And Bolts

There's another long-tested political truism: The most effective political advocate is a normal citizen who is not perceived as being a political pro.

The most effective contact is face-to-face. But meeting 7500 people is a *real* hassle. Nonetheless, it's worth walking precincts—*if* you have the time, *and* have a list of likely voters sorted in walking-order, *and* are personally persuasive even when facing strangers who are irritated that you knocked on their doors in the first place. Okay—forget that.

The *next* most effective contact is by mail.

What if you don't have the time or postage money to produce tens of thousands of letters? No problem—use the nets to ask for help:

1. Post messages in all the appropriate places and to all the appropriate listservs saying that you are coordinating a grassroots effort for or against your chosen candidate or campaign. Ask for volunteers who are willing to help a little bit, from the convenience and privacy of their own homes.

If nobody answers, go back to studying C++ programming.

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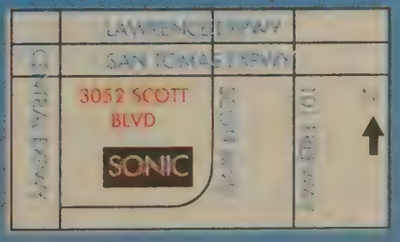

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Realizable Fantasies *continued...*

2. To volunteers who respond, outline the following:

Offer electronic copies of

(a) leaflets that volunteers can post and distribute at work and elsewhere,

(b) model letters that volunteers can send to folks they know—called "Dear friend cards" in traditional campaign operations,

(c) model letters that a volunteer can send, "As a concerned citizen," to strangers,

(d) talking points and facts for letters to the editors of daily and weekly newspapers and to community organizations' newsletter editors, and

(e) talking points and facts for calls to local radio talk shows and community meetings.

(Hidden gotchas: The facts need to be accurate and complete. Effective letters are not easy to write.)

Ask each volunteer

(a) how many leaflets they might be willing to print with their computer and distribute,

(b) how many letters they might be willing to send if they had the addresses, and

(c) how many talk shows they would be willing to call if they had phone numbers and schedules.

Don't be shy in asking!

3. Coordinate the volunteers—preferably via a listserv open to all of them. Then, they can be part of a joint effort rather than treated as obedient drones. They can also share ideas, self-coordinate their efforts and reenergize one another. (Advocacy ain't easy.)

There are numerous other things that can be coordinated and facilitated via the nets—researching issues and opponents, maintaining and sharing databases, organizing campaign events, coordinating get-out-the-vote phone banks and car shuttles to polling places, etc.

Most importantly, note that this requires essentially NO campaign treasury; volunteers personally fund their own mailings and talk-show phone calls.

Note that volunteers need not reside in or even geographically near the target district. It's completely appropriate for "outsiders" to be involved in "local" campaigns—they will only get involved if, in fact, the "local" results are likely to impact them. (For better or worse, that's the rationale for permitting out-of-district donations to "local" races.)

Also note that net-based political action only works for advocacy that can stand the bright spotlight of global public scrutiny and debate in the net's unfettered environment. The net's almost useless for the secret deals of politics' traditional smoke-filled rooms.

About Those Letters

This is somewhat akin to the Letters of Correspondence that played a crucial part in that other American revolution. This time, however, the power of each writer is greatly magnified by their word processor, mail-merge software, and fast printers. But where do they send 'em?

For the "Dear friend" letters, provide the vol-

continued on page 316

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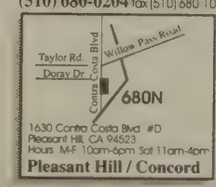

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GUEST EDITORIAL• BY RISHAB AIYER GHOSH

A View From India

Censorship Is Bad For Business

Imagine a country where electricity is forbidden, for it can kill; where fuel is banned lest it explode; where people cannot drive family cars, as limousines are better. Such a country would not last long in an industrial economy. Imagine a country where pictures are forbidden, for they can offend; where news is banned lest it inspire violence; where people cannot watch soap operas as Verdi is better. Such a country might live among smokestacks, but wouldn't last long in a knowledge economy.

After several years of diplomatic wrangling, governments have finally agreed, at least in principle, to free trade in industrial products. But they are a long way from even considering a free trade in information, one that removes restrictions on its distribution across borders, and also on its production and consumption within them. For trade in information is concerned with not only the financial capital that supports it, but also the idea flux—the freedom, flexibility, and ease of creation that propel it.

There is something about the flow of ideas that frightens those in power. Those who benefit from and in some way control it seemingly have a sway over the soul of a country. This assumes, incorrectly, that a country has one soul. Instead, it has millions, but the economics of past media favored broadcasting—in print, through cables, or on the air—with its homogenizing stream of mass-produced dreams. But new technologies bring new economics, and the decreasing importance of broadcasting parallels the increasing irrelevance of controls on cross-media or foreign ownership, and quotas for local content. These only apply to the corporate behemoths of the information business; the threat to the single soul comes from elsewhere.

The invading hordes of cyberspace are individual people, small companies, nonprofit organizations—whoever found it hard to reach their audience, often others like them, through broadcasting. They distinguish themselves by the diversity of their ideas, which are often at variance with the mainstream. They thrive on freedom, and cause the dynamism that makes the information economy so different from its predecessors.

This freedom and diversity are the chief victims of most government restrictions. Whether they control who owns information's producers, an instance of misguided patriotism everywhere, including in the USA—or the content that is distributed, a speciality of Europe—they severely slow down economic potential. Worst of all, though, is the Asian favorite, censorship, where instead of being freedom's protector, the government becomes its prime threat. It is no coincidence that it is poor India that is the region's most exciting information market, rather than richer Singapore, Malaysia, or China. The last also has more people, but is hardly a model of freedom; India on the other hand has possibly the freest press in Asia, apart from Japan and Israel, and doesn't ban satellite dishes.

Some governments are slowly learning that they can work with and not against the idea flux—such as surprising Singapore which, having dived head-first into the Internet, has resigned itself to countering words of evil with those of state-sanctioned good. And Germany, which doesn't quite support its Western neighbor's quotas for local content, and has seen "global culture" MTV threatened by an unaided, unhindered German music channel.

There is something about the flow of ideas that frightens those in power. Those who benefit from and in some way control it seemingly have a sway over the soul of a country. This assumes, incorrectly, that a country has one soul. Instead, it has millions.

Ideas will, despite barriers, ignore geography. Their flow will, despite controls, drive the knowledge economy, if necessary underground. Governments can't prevent this from happening and their attempts to do so will handicap their countries—but they can accept that, with information as with the trade in goods, freedom is for the best. ■

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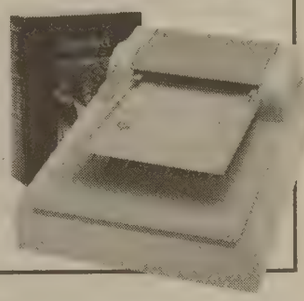

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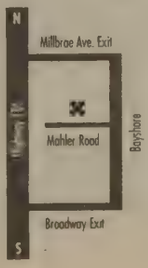

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Letters

Multitasking And Windows We Stand Corrected!

Mitch Gordon's article in our last issue certainly generated some reaction... Our thanks to the many readers who caught this error and set us straight. —eds.

The article by Mitch Gordon ("Learning Windows") on Task Switching and Multitasking (May 29) is incorrect. It is not true that Win 3.1 is unable to run several tasks at the same time.

For years I have been able to download files from a BBS, sort a large reference database, or print a complex graphic in the background while using MS Word or Excel in the foreground. There may be a performance hit on some of these tasks, but even using a 33MHz 486 the convenience of being able to use Word while a file is downloading outweighs the slight performance hit.

There might be an argument over whether or not Win 3.1 is "true" multitasking, but the fact is that background applications are not in a "state of suspended animation" as suggested in the sidebar.

Peter Ohara
via Internet

Back in 1987, Apple shipped something called MultiFinder to everyone buying Macintosh computers. Back then there was lots of discussion about "true multitasking," because MultiFinder had something called "cooperative multitasking." Later, that feature was built into Macintosh System 7.

Now that Microsoft Windows has the same feature, I was pleased to see a column in *MicroTimes* about it, calling it "task switching." I assumed that with the Macintosh vs. PC rivalry out of the way, someone would explain the practical differences between the two types of multitasking.

Much to my dismay, I read the following in a sidebar to the column: "a task-switching operating system allows you to leave a running application and work in a different one, but the abandoned application can perform no work... Windows 3.1 and Macintosh System 7.5 are task-switching operating systems."

This explanation is wrong. It is the same misinformation that was circulating back eight years ago. On Macintosh you can use two programs at once, and the background application can continue to do work. I presume the same is true under Windows, since the other concepts from Macintosh system software were reproduced faithfully.

The sidebar gives examples of specific useful things you can do in the background on "true multitasking" systems, mentioning file downloads and printing long documents. The terminal programs I use on Macintosh allow me to leave and do other work while a download is taking place. While I print a long document I can use other applications. I often grab multiple files from the Internet while writing a letter or reading mail. I imagine this all works the same way with Windows.

The computer should be judged on how well it works, not the technology that underlies it. I use UNIX systems for programming in my job. Although these have "true multitasking," they aren't so good at quickly responding to my mouse clicks.

As I understand it, "true multitasking" should mean that Macintosh System 8 and Microsoft Windows 95 will do the same things better; perhaps more smoothly. But Mitch Gordon's article repeats the long-standing myth that the existing versions of these operating systems don't even let you do two things at once.

Darin Adler
via Internet

In his article on Learning Windows (*MicroTimes*, May 29, p. 176), Mitch Gordon is just flat wrong when he says that under Windows 3.1 and Mac OS, programs that are switched to the background "can perform no work" and are placed in "a state of suspended animation."

Under these cooperative multitasking operating systems, properly written programs can and do get time to operate while in the background. You can run into problems if the foreground program doesn't "cooperate" by releasing time to the OS to let background programs run, but almost no commercial packages work that way anymore.

Mr. Gordon gives the example of "file downloads" from a BBS as a time-consuming operation with which, under Windows or MacOS, "your computer is tied up until it finishes." Well, I'm composing this email to you in Eudora in the foreground on a Mac while uploading a file to CompuServe in background using MicroPhone Pro...

Outside of those "rogue programs" that don't release time to the OS, the differences between cooperative and preemptive multitasking are of almost no interest to end-users. (The differences are of great interest to programmers, but that's another story!)

Bob Murphy
via Internet

I was quite surprised to see such misinformation five years after the release of Windows 3.0. While Windows is perfectly capable of acting as a task-switcher ("Standard Mode"), in general it is used to do multitasking (albeit "cooperative multitasking"). I could never have done my work if I couldn't run Paradox queries in background while designing presentations in Excel of the data they would extract.

Unquestionably, as Mitch's sidebar relates, the preemptive multitasking of operating systems such as OS/2 are far superior to the cooperative multitasking of Windows, but Windows is, and has been for years, much more than a task-switcher.

Rich Gorin
Team OS/2

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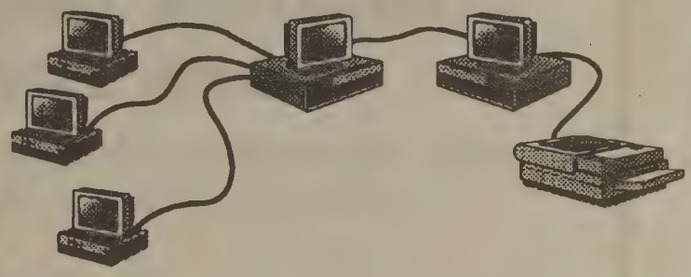

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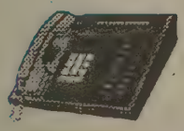

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Mitch Gordon replies:

You fellows are absolutely right. My mistake. The sidebar about multitasking in the article is wrong. Disk formatting, generating print jobs in a word processor, and downloading files from a BBS will all work in the background in Windows. The principal advantages of true multitasking operating systems (such as OS/2, NT, and upcoming Mac System 8 and Win95) for the typical user have to do with reliability (an application crash doesn't bring down the whole system) and behind-the-scenes performance enhancements. As Darin puts it, these systems "will do the same things better, perhaps more smoothly."

My apologies for mistaken information in the sidebar. I stand by the rest of the article, which is intended for the novice user who may not realize that multiple applications can be open at the same time in Windows, and that this can be a great productivity boon.

The computer should be judged on how well it works, not the technology that underlies it.

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First Name | Last Name

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Address

City | State | Zip Code

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E-Mail Address

E-mail address (continued)

Number of Employees: ○ 1 to 10 ○ 50 to 100 ○ 10 to 50 ○ Over 100

What Is Your Purchase Time Frame? ○ 1 Week ○ 3 Weeks ○ 2 Weeks ○ 4 Weeks

Please Rank Your Choice H=High L=Low: (H) (L) Price (H) (L) Service (H) (L) Reseller (H) (L) Warranty (H) (L) Onsite Support (H) (L) Compatibles (H) (L) Brand Name

To Be Used Where? ○ Business ○ Home ○ Network

I Would Like To Receive My Quotation Sent To Me By: ○ Fax ○ Phone ○ E Mail ○ Mail

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Enter # Of Requested Forms: 1 2 3 4 5 6 7 8 9

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STEP ONE: PICK A SYSTEM.

○ PC COMPATIBLE ○ MACINTOSH
○ PC NAME BRAND ○ Network WORKSTATION
○ PC NOTEBOOK ○ Network FILESERVER
○ MACINTOSH NOTEBOOK

PICK YOUR PREFERENCES: ○ Name Brand ○ Compatibles ○ No Preference

Step 1: Enter PC System Brand Name & Model #. If Preference

Step 1: Enter NoteBook Brand Name & Model #. If Preference

Quantity / Choices: 1 2 3 4 5 6 7 8 9 10 or More ○

My Budget For System Is: ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000

Call Me For A More Detailed Quote. ○ Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: CONFIGURATION REQUESTS:

CPU: ○ PENTIUM ○ 486 ○ 386 ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz SPEED: ○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40 ○ 33

BUS TYPE: ○ PCI ○ VLB ○ EISA ○ ISA

CACHE: ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM: ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard ○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SOFTWARES NEEDED: ○ DOS ○ OS2 ○ Mac ○ UNIX ○ MS Windows

STEP THREE: MULTIMEDIA UPGRADE

○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ IDE ○ SCSI ○ External

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

SPEED: ○ 2X ○ 3X ○ 4X

○ BRAND NAME ○ No Brand Name Preference

CD ROM Brand Name and Model Number

SOUND CARD: ○ 16Bit ○ 32Bit

SPEAKERS: ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Fax Modem ○ Docking Station ○ Extra Battery

STEP FIVE: NETWORKING NEEDS:

○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

STEP SIX: UPGRADES and PERIPHERALS.

○ Ink Jet Printer ○ Tape Backup ○ Accelerator
○ Color Printer ○ Dot Matrix Printer ○ Laser Printer ○ Flat Bed Scanner ○ Digitizer ○ Hand Scanner

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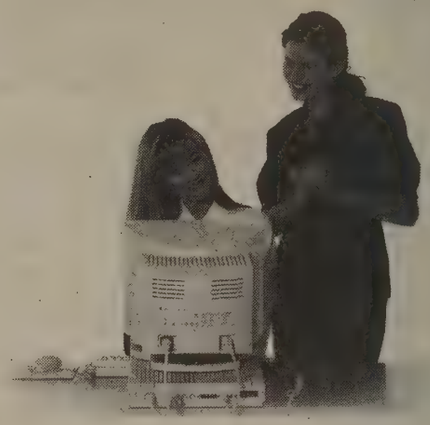
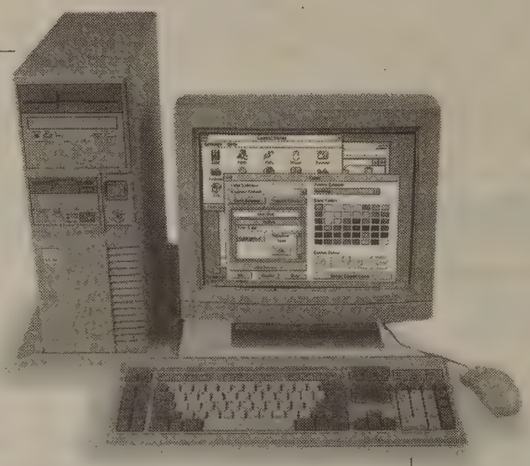
THE ULTIMATE IN SPEED AND POWER... TRITON CHIPSET, PENTIUM 133MHz WITH VRM ARCHITECTURE, UPGRADABLE TO PENTIUM 150 MHz/180MHz!



GOLD

- *Pentium MotherBoard with 256k Cache*
- *Intel Pentium Processor & CPU FAN*
- *8MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *1.2GB IDE Hard Drive*
- *MAG DX 15" Non-interlaced Monitor*
- *Diamond Stealth 64 PCI Video Card W/2MB VRAM*
- *2-Serial Ports 1-Parallel Port 1-Game*
- *Mid Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *Microsoft Serial Mouse*
- *Free Mouse Pad*
- *Microsoft DOS 6.22*
- *Microsoft WINDOWS 3.11*
- *QUAD Speed EIDE CD ROM*

75MHZ	$2335
90MHZ	$2435
100MHZ	$2535
120MHZ	$3085
133MHZ	$3535



SILVER

- *Pentium MotherBoard with 256k Cache*
- *Intel Pentium Processor & CPU FAN*
- *8MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *1.0GB SCSI Hard Drive*
- *MAG DX 15" Non-interlaced Monitor*
- *Diamond Stealth 64 PCI Video Card W/2MB VRAM*
- *Adaptec 2940 PCI SCSI Controller*
- *2-Serial Ports 1-Parallel Port 1-Game*
- *Mid Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *Microsoft Serial Mouse*
- *Free Mouse Pad*
- *Microsoft DOS 6.22*
- *Microsoft WINDOWS 3.11*
- *QUAD Speed SCSI CD ROM*

75MHZ	$2595
90MHZ	$2695
100MHZ	$2795
120MHZ	$3345
133MHZ	$3795

** Microsoft Office 4.3 $340*

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GRAY

- Intel Zappa Triton MotherBoard with 256k Cache
- Intel Pentium Processor and CPU FAN
- 16MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.2GB EIDE Hard Drive
- 17" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB VRAM
- ON Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22
- Microsoft WINDOWS 3.11

Media Magic 4X Multimedia Kit

- QUAD Speed IDE CD ROM
- 16 Bit Sound Card & Stereo Speaker
- Compton's Encyclopedia 95
- Chessmaster 3000
- Mavis Beacon Teaches Typing
- US Atlas & World Atlas

75MHZ	$2895
90MHZ	$2995
100MHZ	$3095
120MHZ	$3645

*** Microsoft Office 4.3 $340**

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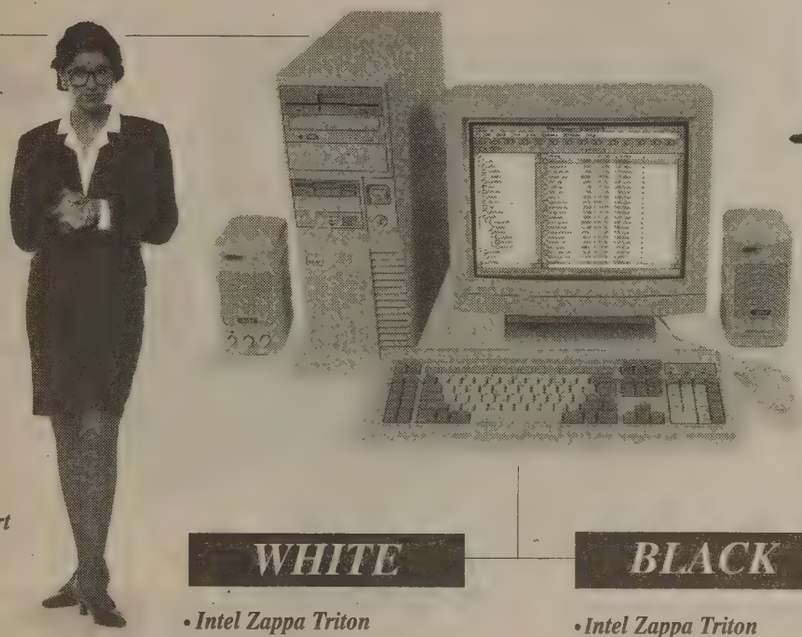

WHITE

- Intel Zappa Triton MotherBoard with 256k Cache
- Intel Pentium Processor and CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 540MB SCSI Hard Drive
- 15" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB DRAM
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22
- Microsoft WINDOWS 3.11
- QUAD Speed EIDE CD ROM

75MHZ	$2195
90MHZ	$2295
100MHZ	$2395
120MHZ	$2945

BLACK

- Intel Zappa Triton MotherBoard with 256k Cache
- Intel Pentium Processor and CPU FAN
- 4MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 420MB IDE Hard Drive
- 14" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/1MB DRAM
- ON Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22
- Microsoft WINDOWS 3.11
- Double Speed CD ROM

75MHZ	$1545
90MHZ	$1645
100MHZ	$1745
120MHZ	$2295

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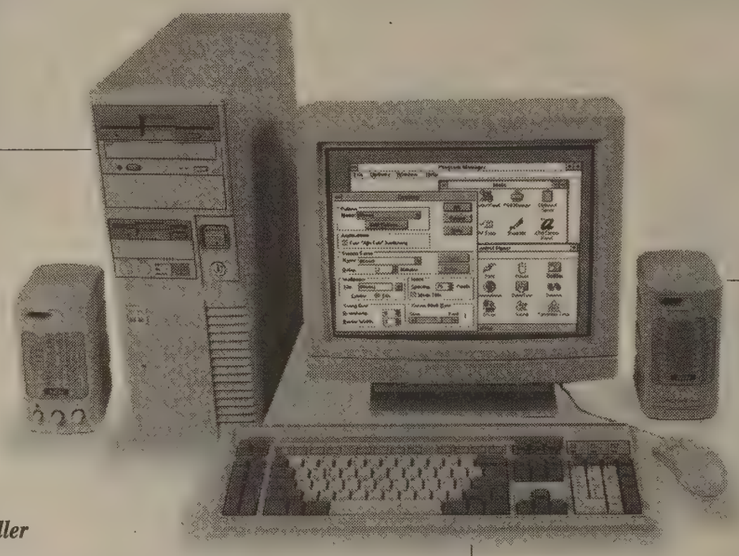
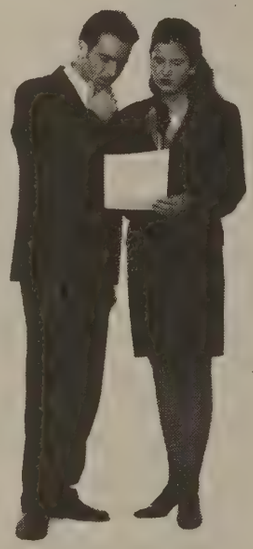


GREEN

- *Asus Pentium MotherBoard with 256k Cache*
- *Intel Pentium Processor & CPU FAN*
- *8MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *1.2GB IDE Hard Drive*
- *17" Non-interlaced Monitor*
- *Diamond Stealth 64 PCI Video Card W/2MB DRAM*
- *ON Board PCI Enhanced IDE Controller*
- *2-16550 Serial Ports 1-Parallel Port*
- *Mid Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *Microsoft Serial Mouse*
- *Free Mouse Pad*
- *Microsoft DOS 6.22*
- *Microsoft WINDOWS 3.11*
- *Impression 4X IDE Multimedia*
- *Quad Speed IDE CD ROM*
- *16 Bit Sound Card & Stereo Speaker*
- *Microsoft Encarta 95*
- *Microsoft Works*
- *Microsoft Money*
- *Microsoft Entertainment Pack*

60MHZ	$2525
66MHZ	$2575
75MHZ	$2625
90MHZ	$2595
100MHZ	$2825



BLUE

- *Asus Pentium MotherBoard with 256k Cache*
- *Intel Pentium Processor & CPU FAN*
- *4MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *540MB SCSI Hard Drive*
- *15" Non-interlaced Monitor*
- *Diamond Stealth 64 PCI Video Card W/1MB DRAM*
- *NCR PCI SCSI Controller*
- *2-16550 Serial Ports 1-Parallel Port*
- *Mid Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *Microsoft Serial Mouse*
- *Free Mouse Pad*
- *Microsoft DOS 6.22*
- *Microsoft WINDOWS 3.11*
- *Double Speed CD ROM*

60MHZ	$1595
66MHZ	$1645
75MHZ	$1695
90MHZ	$1795
100MHZ	$1895

RED

- *Asus Pentium MotherBoard with 256k Cache*
- *Intel Pentium Processor & CPU FAN*
- *4MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *420MB IDE Hard Drive*
- *14" Non-interlaced Monitor*
- *Diamond Stealth 64 PCI Video Card W/1MB DRAM*
- *ON Board PCI Enhanced IDE Controller*
- *2-16550 Serial Ports 1-Parallel Port*
- *Mid Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *Microsoft Serial Mouse*
- *Free Mouse Pad*
- *Microsoft DOS 6.22*
- *Microsoft WINDOWS 3.11*
- *Double Speed CD ROM*

60MHZ	$1395
66MHZ	$1445
75MHZ	$1495
90MHZ	$1595
100MHZ	$1695

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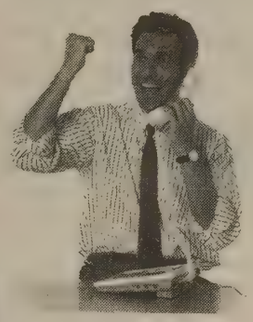

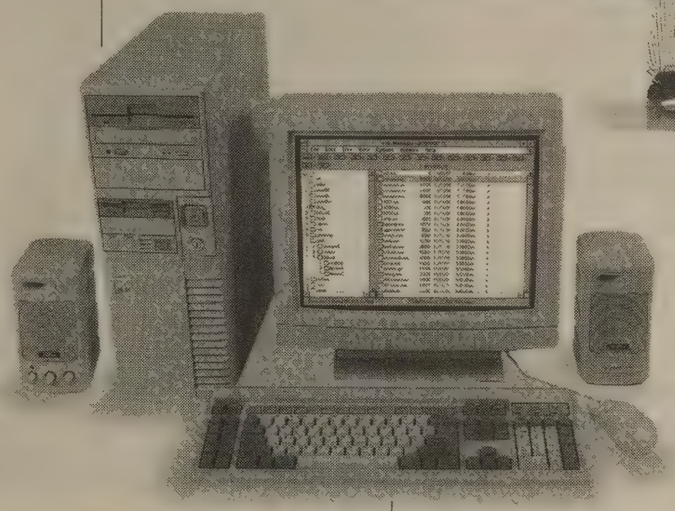

CYAN

- *Asus 486 PCI VLB MotherBoard with 256k Cache*
- *Intel 486 Processor & CPU FAN*
- *8MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *540MB IDE Hard Drive*
- *15" Non-interlaced Monitor*
- *Diamond SpeedStar Pro PCI Video Card W/1MB*
- *ON Board PCI Enhanced IDE Controller*
- *2-Serial Ports 1-Parallel Port*
- *Mid Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *3 Button Serial Mouse*
- *Free Mouse Pad*
- *Microsoft DOS 6.22*
- *Microsoft WINDOWS 3.11*

Miceosoft Upgrade Multimedia Kit

- *Double Speed CD ROM*
- *16 Bit Sound Card & Stereo Speaker*
- *Microsoft Encarta 95*
- *Microsoft Works*
- *Microsoft Money*
- *Microsoft Golf*
- *Microsoft Baseball*
- *Microsoft Entertainment Pack*

60MHZ $1645
100MHZ $1739

*** Microsoft Office 4.3 $340**

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YELLOW

- *Asus 486 PCI VLB MotherBoard with 256k Cache*
- *Intel 486 Processor & CPU FAN*
- *4MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *540MB IDE Hard Drive*
- *14" Non-interlaced Monitor*
- *Diamond SpeedStar Pro PCI Video Card W/1MB*
- *ON Board PCI Enhanced IDE Controller*
- *2-Serial Ports 1-Parallel Port*
- *Mini Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *3 Button Serial Mouse*
- *Free Mouse Pad*
- *Microsoft DOS 6.22*
- *Microsoft WINDOWS 3.11*
- *Double Speed CD ROM*

66MHZ $1259
100MHZ $1329

MAGENTA

- *Asus 486 VLB MotherBoard with 128 Cache*
- *Intel 486 Processor & CPU FAN*
- *4MB Ram Exp. to 128MB*
- *1.44MB Floppy Drive*
- *420MB IDE Hard Drive*
- *14" Non-interlaced Monitor*
- *32-Bit VLB Graphic Accelerator Card W/1MB*
- *VLB 2H/2F IDE Controller*
- *2-Serial Ports 1-Parallel Port 1-Game*
- *Mini Tower Case w/230W Power Supply*
- *101-KEY Enhanced Keyboard*
- *3 Button Serial Mouse*
- *Free Mouse Pad*
- *Microsoft DOS 6.22*
- *Microsoft WINDOWS 3.11*
- *Double Speed CD ROM*

66MHZ $1159
100MHZ $1229

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3.12 5/10/25 User(Regular)	$595/1375/2095
4.1 5/10/25 User(OEM)	$560/1195/1895
4.1 5/10/25 User(Regular)	$695/1495/2195

Danpex

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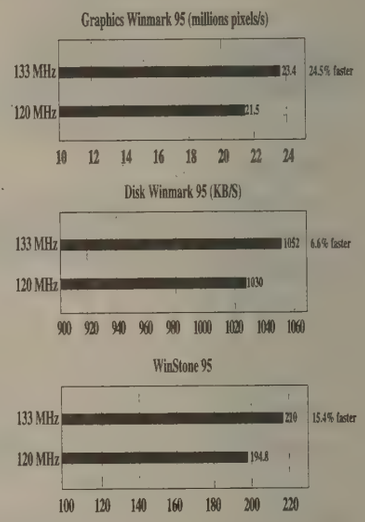

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CACHE	128 / 256 / 512 / 1MB		
MEMORY	4 / 8 / 12 / 16 / 24 / 32 / 64 / 128 / EDO		
KEYBOARD	101 ENHANCED / MICROSOFT EURO / OTHER		
FLOPPY	1.2 / 1.44 / COMBO		
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FAX/MODEM	INT / EXT 14.400 / 28.800	MODEL / MAKE_____	
BACK-UP	INT / EXT FD / SCSI 250 MB / 350 / 700 / DAT 2G / 4G / 8G		
CD-ROM	INT / EXT IDE / E-IDE /SCSI 2X /4X / 6X		
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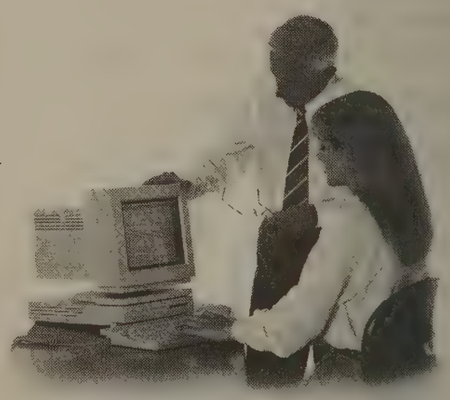
MOUSE	MS / LOG / GENERIC SERIAL / BUS / TRACKBALL		
NETWORK	ISA / EISA / BLV / PCI / MAKE / MODEL_____		
SOFTWARE	MS WINDOWS 3.11 / WINDOWS 95 / IBM OS/2 WARP / DOS / OTHER		
OPTIONS	_____		



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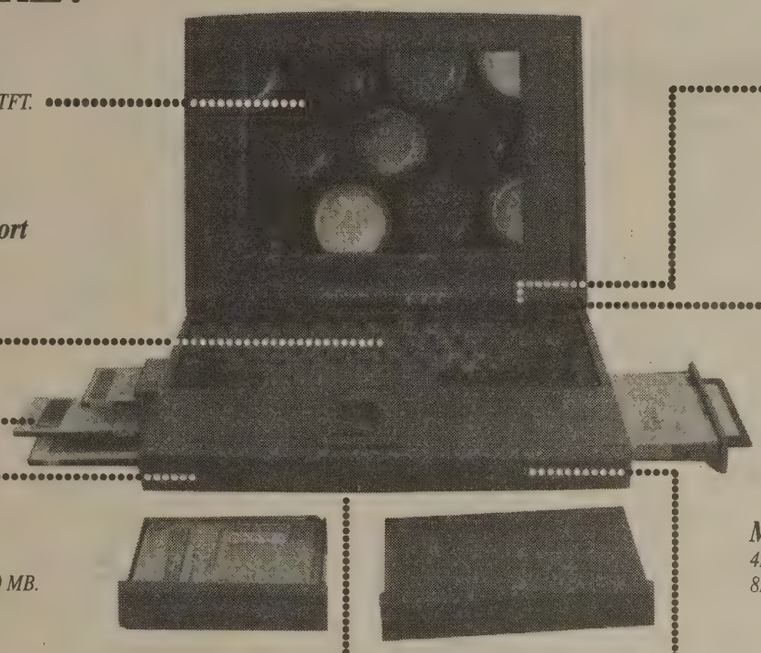

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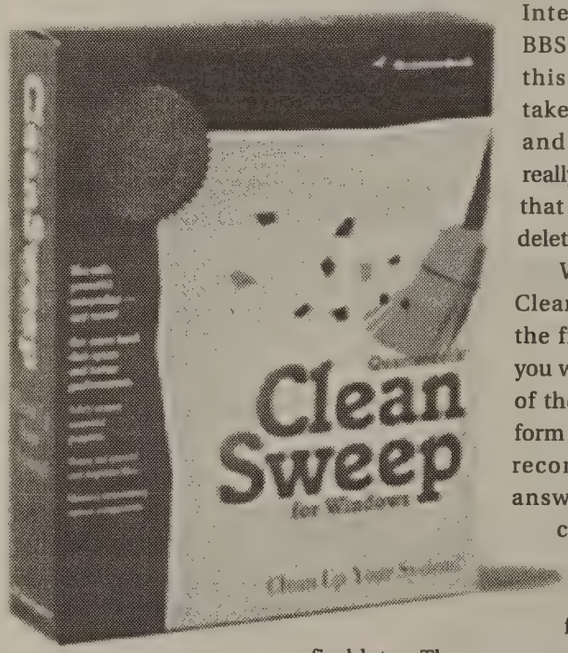
Clean Sweep

Quarterdeck Has Built A Better Mousetrap For Removing Software From Your System

Keeping a hard disk clean, especially if you use Windows, is a problem. Several months ago, I discussed a program designed to remove all of the files associated with any program. I found a better mousetrap and decided to revisit the same territory again. While I liked Uninstaller 2, I found it to have a number of problems that made it more difficult to use than I would have liked for a novice.



Quarterdeck Software has come out with a program that is a dream. You find the program that you want to eliminate and ask the software to remove it from your hard drive. It presents you with a list of files that it believes belong to the program you want off your hard drive. It also makes the necessary modifications to .ini files. If you are anything like me, you do not really know just which files and statements have to be removed. The point of this software is to make those decisions for you.

CleanSweep does just that. One of the great features of this program is that either on start-up or at your command, the program makes a database of each program you have in Windows' Program Manager. In this way, it assembles a listing of which programs are installed and which files they each need. The result is that when you say you want to remove an application, CleanSweep has a pretty good idea of just what needs to be done. Part of what CleanSweep does to give added efficiency is employ a database of which components are used in the most popular programs on the market. This listing can be updated through the Internet, Quarterdeck's BBS, or CompuServe. In this way, guesswork is taken out of the process and you are assured of really removing everything that should go when you delete an application.

When you tell CleanSweep to go ahead, the first thing it asks is if you want to make a backup of the files in compressed form on your hard drive. It recommends that you answer yes. If you do, it copies all of the files it is about to remove into a compressed file that you can easily find later. The recommendation is that after a week or so you remove these compressed files when it is clear that you no longer need them. What a great system! You can afford to follow the recommendations of the program and if it is wrong, it is easy to restore whatever has been removed or modified. Removal is easy as each session is maintained in a separate file so you don't have to pick and choose which files to remove.

Going back later to see what you have done is simple as there is a log of each change you make. The log is complete, showing if you made a backup or not and even showing those sessions in which you merely made a test run. You can edit this file with your word processor in order to keep it current with the backup files you maintain.

But the program has other strengths. It can easily analyze your hard drive for duplicate files. It is also able to tell you something about each of these listings so you can decide whether to remove one or the other copy. Likewise, it will locate files that it thinks are left over from old deleted applications—applications removed before you had CleanSweep. In a short time you can easily clean your hard drive of duplicate, orphaned, and unwanted files. This program is perfectly designed for the novice user. No technical skill is required. If you simply follow the recommendations of the program, you will not get into any serious trouble. If you do get into trouble, it is not difficult to restore your system to what it had previously been.

The final strength of the program is that it will analyze your system files and recommend removal of portions of these files that you never use. While other programs can do a similar job, the strength of CleanSweep is that it will tell you in plain English just what the commands it proposes to remove do. In this way you can decide whether this is something you would like to have go or should keep just in case.

This is really the program you should get if you like to install software and later decide that you have found a better product. I find that after a time, my hard drive is filled with files that I simply do not know whether I need or not. In less than an hour, I was able to eliminate gobs of files that previously I simply did not feel free to remove.

RESOURCES:

CleanSweep, $59
Quarterdeck Office Systems
150 Pico Blvd.
Santa Monica, CA 90405
1-800-354-4757

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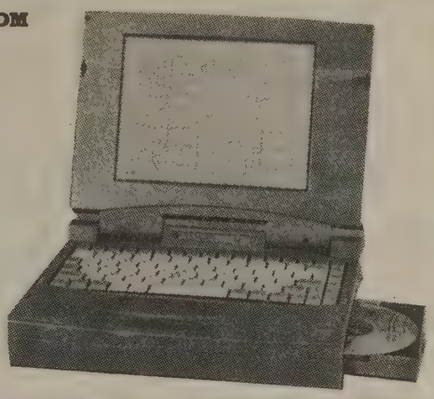

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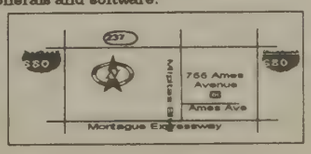


Computer Of The Month:

Zenith's Z-NoteFlex

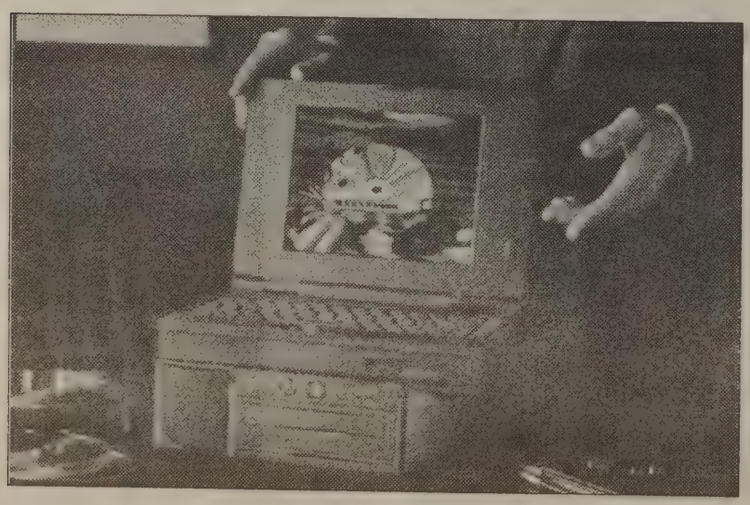
In the early days of portables. Zenith was the undisputed king of the mountain. Its machines were well designed and lasted. Today the company still puts out terrific products and its latest entry, the Z-NoteFlex, is no disappointment.

The Z-NoteFlex comes in a number of different configurations, but the basic package measures about 12" x 8.7" x 2". The unit weighs just over 5.5lbs. with battery. The entry-level model is powered by a 486SX running at 33MHz. The top of the line comes with a 486DX4 running at 100MHz. Memory capacity ranges from 4MB all the way up to 24MB. Hard drive sizes range from 200MB all the way up to 810MB. Many of the components can be upgraded by the end-user as the machine is built around a modular design.

A number of options are available for the video. The least expensive option is a monochrome display. Color displays come in either active or passive models. The screen sizes vary, depending upon which option you choose, but the largest displays measure 10.4" diagonally. You can, of course, connect a monitor of your choice to the unit. But Zenith offers another option with its Flexsite LCD stand ($199), which allows you to disconnect the display from the unit and place it on the stand. In this way, you can move back several feet from the display. This option is especially useful for presentations. The screen just slides off the unit after you move two tabs to the side. A cable connects the removed display back to the unit. Like all of the good machines coming out these days, the machine features local bus video for fast redrawing of the screen.

The keyboard is well designed and has a good feel. If you want to install your own keyboard, it is as simple as plugging it into the port on the back of the unit. While a trackball is built into the machine, located just below the keyboard, you can also install a mouse into either the keyboard port or the serial port.

Zenith has designed efficient power management into the system. A nickel metal hydride battery comes with the unit and additional batteries ($129) are available. A removable floppy drive comes in the computer. It slips out and can be replaced by a second battery pack. With two batteries, it is possible to run the computer, even with a color display, for up to six hours—enough to fly coast to coast. The system can be set up in a number of different ways to conserve battery power. One of the most efficient is to have the system keep your place when you close the lid. In this way, you will not have to power up again when you begin your next session with the machine.



Two PCMCIA slots are stacked on top of each other to offer the added option of accommodating a Type III card. PCMCIA cards are available for everything from modems to network interfaces. Hard drive cards make it especially easy to transfer material from one computer to another.

Zenith, like many of the top portable manufacturers, includes built-in 16-bit stereo audio. In addition to a standard speaker and built-in microphone, there are jacks for attaching an external microphone and headphones or speakers. Zenith offers a wide array of audio products that work with this computer so you can set up a multimedia system. While these accessories are beyond the scope of this review, Zenith has designed this system to expand into a full multimedia system and even offers a carrying case designed for the expanded system.

The units come with DOS, Windows for Workgroups, and the software to make the PCMCIA adapter work. In addition, there is online documentation. I like the wide range of accessories Zenith offers for this system. While prices vary from dealer to dealer, Zenith has designed this system to be fully competitive with less expensive systems on the market by lowering its prices in the last quarter. Additionally, it has put together a number of packages that include hardware and software. Finally, there is a full on-site warranty for the first year and an additional two years of quick turnaround service if you send the computer or component back for repair. ■

RESOURCES:

Z-NoteFlex, starting at $2232
Zenith Data Systems
2150 E. Lake Cook Rd.
Buffalo Grove, IL 60089
1-800-533-0331

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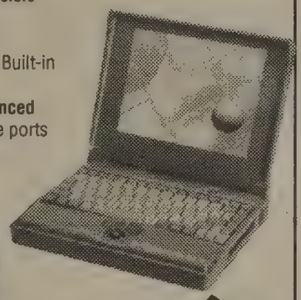

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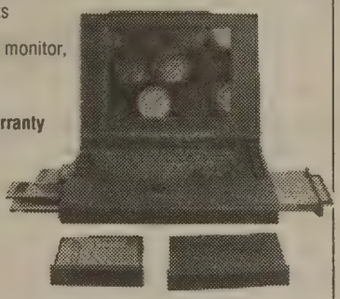

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- 32-Bit VESA Local Bus
- 1.44 Floppy Drive (Removable)
- PCMCIA Slots One Type II and One Type III
- Complete 16-Bit Audio System, with Built-in Speaker and Microphone
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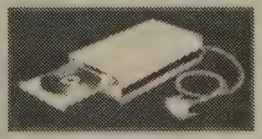

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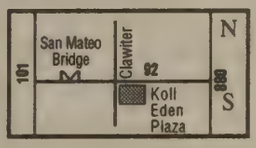

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NETWORKING • BY PETER JOHN HARRISON

Connecting To Your LAN From Afar

Providing High-Speed Dial-Up Access To Your LAN

For many LANs and LAN administrators, "local" area networking is becoming less "local" these days. Sometimes it seems that everyone in the company, from the janitor to the president, wants to be able to access network resources from locations that aren't "local" at all.

Telecommuting is coming of age. By the end of the decade more than 20% of the work force is expected to spend one day or more a week using some form of telecommuting solution, and network administrators have no choice but to find solutions that meet the remote access needs of their LAN users. Add to that the growing number of on-the-go salespeople doing business in a world where electronic communication is a must, even when they're stuck in some hotel room in Memphis, and you'll understand why it's not a question of whether or not to provide dial-up access to the LAN, but how and when.

Unfortunately, traditional modem technology doesn't begin to approach the speed and capacity of local area networking technology. A standard 10Mbit per second Ethernet connection, for example, has the capability to move one thousand times as much data as a standard 14.4Kbits per second (bps) modem. Even moving up to a fast 28.8Kbps data modem only marginally improves transmission speeds, from 1/700th the speed available to the LAN to 2/700ths. To be honest, there really isn't any economical solution that can keep up with the full speed of a direct connection to the LAN, but that doesn't mean you have to get stuck with dial-up modem speeds either.

One of the technologies LAN administrators are starting to take a close look at is Integrated Services Digital Network, or ISDN. ISDN is a new approach to providing telephone service. Conventional telephone service, called POTS (short for Plain Old Telephone Service), transmits an "analog" signal that emulates the vibrations the human ear hears as sound. Most of the telephones you use employ POTS, a technology that was developed fifty years ago, when "high-tech" electronics employed vacuum tubes and mechanical switches.

> With ISDN, the **difference** between a direct **connection** to the LAN and **dial-up** access isn't very noticeable.

What modems do is translate digital information from your computer into an audible, analog signal, then transmit that signal using POTS technology that was never designed to carry a high-speed data stream. ISDN technology, on the other hand, is a product of the computer age that is designed to carry digital information. A single ISDN "Basic Rate Interface" (BRI) line has three separate data channels with a combined data capacity of either 128 or 140Kbps, ten times the carrying capacity of a POTS line with a 14.4Kbps modem.

Each ISDN BRI has three different channels: two 56 or 64Kbps "B" channels over which you can carry two separate voice or data calls, and a 16Kbps "D" channel that can be configured to send and receive X.25 packet data. (The exact speed of the "B" channels, 56 or 64Kbps, depends on the capabilities of the phone company switching equipment being used.) That's a lot of capacity, especially when you consider that the monthly cost of an ISDN line is just $25 (plus usage).

Until recently, setting up an ISDN line was an expensive and technically complicated task, but over the last year or two prices for ISDN equipment and service have dropped considerably. The new, lower prices have created a demand for easier to install "end-user" ISDN products, and the market is responding with easier to configure and connect hardware and software products.

Recently I set up a dial-in hub that used ISDN to provide access to a small Windows for Workgroups LAN, and I was surprised at how easy it was to install. The "hub" I set up was a Microsoft Windows NT Advanced Server running "Remote Access Server" (RAS), which comes with the Windows NT package. Also included with Windows NT were software drivers for the internal ISDN adapter that had been selected for the project, and a single-line DigiBoard PC IMAC card that can support two ISDN data calls, one on each of the B channels. (DigiBoard also makes two- and four-line cards.) Setting up NT RAS is very easy. You open the "Network" control panel, pick the driver for the card (or modem) you are using, and NT walks you through the process of installing the driver software and configuring RAS.

Doing an ISDN configuration is a little different from the standard modem-based installation for RAS, because ISDN equipment needs more information about the telephone line you're connected to. You have to put in one or

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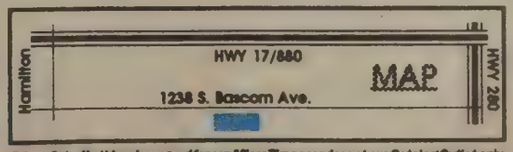

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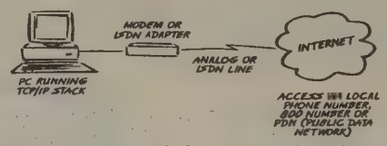


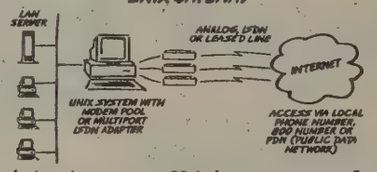
At home, the easiest way to connect with the Internet is through an on-line service such as CompuServe, Delphi or Prodigy. All you need is a PC, a modem, and communications software such as Carbon Copy or ProComm. The Internet provider takes care of everything else for a monthly fee plus a per-minute usage charge.

Another option is to use a service such as PSI's InterRamp which provides you with an actual IP address on the Internet. For this option, you need to run an IP protocol stack on your PC along with some type of Internet access package. There are packages available today that offer both TCP/IP and Internet access in a single package. Or, if you are technically adept, free "shareware" can be downloaded from the Internet.

LAN InterNet Access

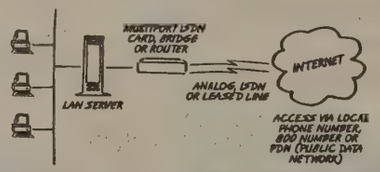
Many companies today are choosing to provide all network members with Internet access. Following are two options for linking LANs to the Internet.

UNIX GATEWAY



One of the easiest solutions is to set up a Unix host as a gateway for PC or terminal users to the Internet. For example, SCO's Global Access product integrates TCP/IP networking services, a graphical user interface, graphical e-mail, security and the SCO Unix operating system into a single package. Non-Unix Computers will need to run an X-terminals emulation package to access the Unix gateway. A modem pool Multiport ISDN adapter, or other communications device, is also needed.

IP ROUTER



For companies that don't want a dedicated Unix gateway, the LAN server or a router on the LAN can provide network members with Internet access. An IP protocol stack must be running on the server along with Windows, DOS or Macintosh client software. The server needs to be equipped with an adequate number of communications devices (such as a modem pool or Multiport ISDN LAN adapter) and it requires either a direct connection such as a leased line, or a switched connection such as an analog or ISDN phone line, to an Internet provider.

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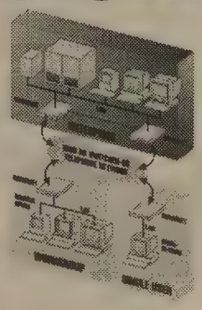

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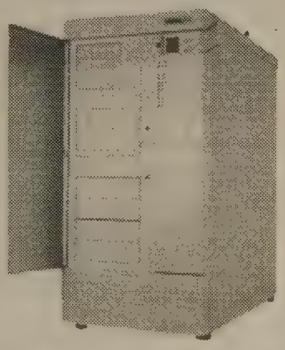

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two "Service Profile Identifiers" (SPIDs), your phone numbers, and even tell RAS what kind of switching system the telephone company is using to service your line. The phone company provides you with all the information you need when they install your line.

Ordering an ISDN phone line is a little different from ordering a regular phone, too. Just as you need to configure the Windows NT ISDN driver so that it knows how to work with the telephone company's switching equipment, the telephone company needs to know which ISDN adapters you plan on using when you order your phone line.

Setting up the Windows for Workgroups client for RAS access was fairly easy too. For the client side of the connection I installed a DigiBoard DataFire adapter, which has capabilities similar to the PC IMAC card. ISDN RAS access for Windows for Workgroups is relatively new for the DataFire, and I had to download some beta test driver software directly from DigiBoard; once I had the drivers I walked through the two-step installation process, running the DigiBoard installation program bundled with the drivers, then configuring RAS for Windows for Workgroups, but everything went smoothly.

I did discover something during the driver installation process that I didn't like, though, and that was that I could only configure one of the DataFire's two B channels, meaning I could only transmit data at 56Kbps. Whether this is a limitation of the DataFire card or Microsoft's RAS software I'm not sure, but I expect that either DigiBoard or Microsoft will implement "multilink" capabilities for ISDN as demand for more robust ISDN networking connections builds.

And then it was time to test. At first it didn't work, and I had to call DigiBoard technical support to help me troubleshoot the connection, but within a few minutes we had the problem figured out—I had typed the twelve-digit SPID number for the DataFire card in wrong. Once that was fixed, I had it! 56Kbps access to the LAN over ISDN!

One of the complaints I have about using analog modems to dial into a LAN is that even the modest LAN activity seems to just crawl along. With ISDN, the difference between a direct connection to the LAN and dial-up access isn't very noticeable, unless you find yourself transferring large data files or loading applications across the link.

Even so, with additional gains in modem speed nowhere in the foreseeable future, ISDN is probably your best bet for providing your users with high-speed dial-up access to your LAN. Who knows? With ISDN prices down to half of what they were just one year ago, providing your users with their own dial-up access to your LAN's digital data highway may not be such a wild and crazy idea after all. ■

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RESOURCES:

Microsoft Corp.
1-800-426-9400
http://www.microsoft.com/

DigiBoard, Inc.
1-800-344-4273
http://www.digibd.com/

Pacific Bell ISDN Service Center
Pacific Bell's ISDN User's Guide
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http://www.pacbell.com/Products/SDS-ISDN/Book/toc.html

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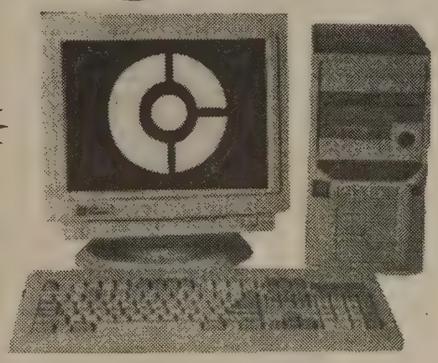

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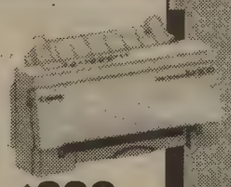

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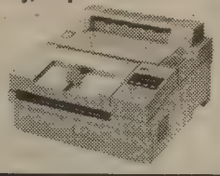

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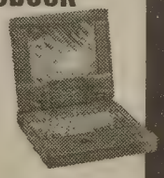

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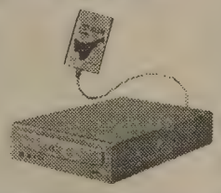

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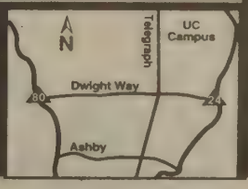

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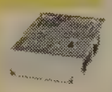

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Cash For Telecommuting

Another View Of Cost-Savings Via Telecommuting

Telecommuting is extremely cost effective. According to Noel Hodson, a British-based telecommuting consultant who travels the world demonstrating its benefits to employers and employees alike, "Organizations may benefit, in ideal circumstances, by the equivalent of the gross salary of each home-based teleworker they employ, when the teleworker's extra output is taken into account. Individuals may benefit, in ideal circumstances, by the equivalent of a sixth or a fifth of their salary."

The self-employed, Hodson notes, collect both the employer's and the employee's side of the benefits from telecommuting.

Hodson's unique analysis of telecommuting from a cost/benefit perspective involves looking at certain specific cost centers:

Productivity

Just about every study of telecommuting cites significant productivity increases for those who work away from the office. Hodson's are no different. In fact, I can't think of a single instance where productivity was found to be reduced by telecommuting, although there are cases where observers do not notice an increase.

Productivity increases related to telecommuting come from a variety of sources:

•Fewer interruptions and time lost to office overhead conversations (about 18% of an office-bound workday is lost this way);

•Fewer days lost to illness (about seven days of office-bound work per year are lost this way—they can be regained by a telecommuter working at home despite an illness just bad enough to prevent a commute to the office); and, most importantly,

•Major time savings due to elimination of the commute to and from the office.

In one of Hodson's recent workshops, participants calculated that switching to telecommuting five days a week (not always desirable or recommended, but an easier basis on which to calculate costs and savings) would "create" an additional one hundred workdays per year.

If you consider that dressing and going to the office each day takes ninety minutes, and returning home and relaxing requires another ninety minutes, the computations (five days x 180 minutes per day) show that ninety hours or two work days per week are saved by the switch to full-time telecommuting. Your mileage may vary, of course, but the concept is generally the same, and very positive for everyone.

With extra hours in every day, and extra days during the year, it's only natural for telecommuters to accomplish more than their office-bound counterparts.

It doesn't take rocket-scientists to see how this productivity converts into extra profits for the employer.

At American Express Travel Services in Houston, Texas, for example, Hodson says that travel agents who work via telecommuting handle about 26% more calls per day and produce about 46% more business than comparably experienced travel agents working in conventional offices. The costs for all this extra income? As you'll see in a few minutes, they're almost negligible.

Productivity increases even more if you consider the ratio of work to employer expenses. Since teleworkers are not only less expensive and more productive per hour of work, but have more hours per day in which to work, according to Hodson the employer's cost per unit of work delivered literally plummets as much as 20% or more.

> I can't think of a single instance where productivity was found to be reduced by telecommuting, although there are cases where observers do not notice an increase.

Commuting

Hodson suggests that employers pay enough not only to maintain an employee's standard of living, but to cover the costs of commuting to and from work. That's why telecommuters often feel their new working arrangement is a kind of fringe benefit, and will often forego raises in return for the right to telecommute.

If you calculate the value of your time at only $5 per hour, eliminating a thirty-minute (each way) commute through five-day-a-week telecommuting brings you a clear benefit worth $1150 over the year (that's $5 x 230 workdays). Value your time higher, or eliminate a longer commute, and the benefit climbs even higher!

Business Travel

Telecommuting can eliminate not only the travel people do to work, but the travel people do from work, once they arrive. This includes fairly local travel during the day to meetings at other

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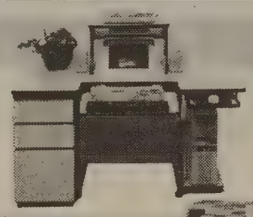

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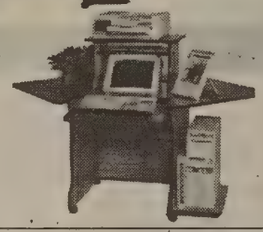

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of the team. Another reason is undoubtedly that the fear of teleworkers falling out of touch is nothing but an unsubstantiated myth left over from an earlier, but rapidly fading, era.

Recruiting, Motivation, And Retention

It's well documented that telecommuting makes it easier to recruit employees from a wider geographical area. Because it's generally viewed as a benefit, it enhances an employer's recruiting package and also motivates employees once they are hired. Since few people who begin telecommuting are later willing to give it up, when other opportunities arise telecommuters often feel their flexible working style is one more reason to stay with their present employer.

> **People tend to be about 15% more available to their supervisors and their coworkers when they are telecommuting than when they are working in a traditional office.**

Hodson points out that replacing and training a high-level professional or executive can cost a company as much as $100,000. To the extent key employees stay because they have the opportunity to telecommute, some of that potential expense should be considered a savings attributable to telecommuting.

Even more to the point, losing such an employee to another company can mean one firm is underwriting the training costs of a competitor.

Noel Hodson can be reached in Great Britain (note the time difference: eight hours later than the West Coast, five hours later than the East Coast of the US) at 011-44-1865-60994. His fax number is: 011-44-1865-64520.

"Smart" Phone Integrates Home And Office

Telephones keep getting smarter and smarter. Already, there's "follow me" service in some parts of the country that allows you to quickly and easily—and instantly—switch your phone calls from one location to another. With this technology, you can give people a single telephone number and take all your calls in your office, on your boat, or anywhere in between.

Now a new "MultiMux" modem from MultiTech Systems, Mounds View, MN (612/631-3550), provides a virtually invisible telecommunications connection between a telecommuter and his or her headquarters' office.

According to Paul Kraska, product marketing manager, the new device is an intelligent multiplexer that can combine

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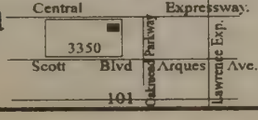

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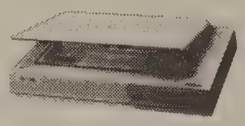

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AV-660 Color Flatbed Scanner
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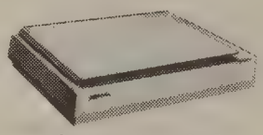
- IBM 3/4/586 & Macintosh Compatible
- SCSI or PC Interface
- 24-Bit 16.7 Million Colors, High Speed
- Maximum Resolution 4800x4800 DPI
- Free Color Editing Software
- Twain Compatible



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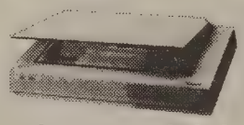

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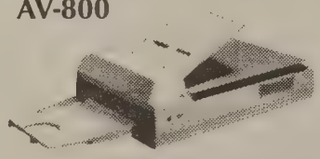
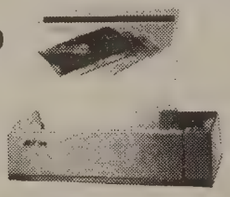
Scanners with Built-in ADF for Document Imaging

AV-800



AV-100



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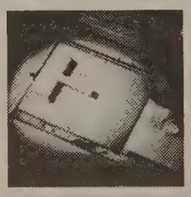

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locations, and travel done to more distant locations for a day or more at a time.

Substituting various forms of telecommuting for conventional business travel offers great cost-savings opportunities for both the organization (which would otherwise pay hundreds or thousands of dollars per day in salaried time that produces very little, plus mileage costs, airfare, hotel, taxi, and meal expenses), and for the individual (who would otherwise lose time away from the family and away from other opportunities to do productive work).

Hodson recounts the example of a firm which recovered its entire $160,000 investment in videoconferencing equipment just in the first few months of using it. A great deal of business travel is unpaid—including nights spent away from home and weekend days spent traveling to and from weekday meetings.

Equipment

One of the big objections to telecommuting is the expense of setting up workstations away from the office. But studies show this expense to be very small in relation to the savings and other benefits of telecommuting.

In American Express Travel Services, for example, each telecommuting travel sales agent costs the company about $1300 over three years. This includes the one-time relocation and installation costs for computer and telephone equipment, plus the ongoing telephone line and usage charges. Against this expense, the company saves about $4400 per year in office space rental. At the end of three years, the company has saved $11,900.

Equipment and workstation costs tend to be low in the US, Hodson reports, because as many as 75% of US telecommuters already had access to a suitable computer when they first began telecommuting. Even when equipment must be purchased and installed, the cost of telecommuting never even comes close to wiping out the benefits.

Equipment costs can rise, however, in some cases as high as $8000 or more. One reason for higher equipment costs is when the teleworker uses a computer both in the office and at the telecommuting work site. That's why Hodson recommends that part-time telecommuters who depend on computer capabilities should receive portable computers they can transport with them from one site to another, as necessary.

Availability

The conventional wisdom is that telecommuters are more difficult to reach than people who work in a centralized office setting. But Hodson's research points to a different conclusion.

People tend to be about 15% more available to their supervisors and their coworkers when they are telecommuting than when they are working in a traditional office.

One reason is that teleworkers tend to view their workstyle as a privilege to be protected. So they are highly motivated to be seen as hard-working, readily available members

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- 10.4" active matrix color display
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T4700, T4800, T4850
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- 1 Type II or Type III PCMCIA slot
- Microsoft Sound System, built-in microphone audio out port

Model	Processor	Screen	Hard Drive	Price
T4700	486DX2/50	9.5" Dual Scan	200MB	$2698
T4700	486DX2/50	9.5" Dual Scan	320MB	2798
T4800	486DX4/75	9.5" Active	500MB	3098
T4850	486DX4/75	10.4" Active	500MB	3248
T4850	486DX4/75	10.4" Active	772MB	3448

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- PCMCIA Type II slot
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Processor	Screen	Hard Drive	Price
486DX2/50	8.4" Active	500MB	$3198
486SX/33	7.8" Active	120MB	1698

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- 2 Type II and Type III PCMCIA slot (T2100 series)
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- Accupoint pointing device

Model	Processor	Screen	Hard Drive	Price
T2100	486DX2/50	9.5" Mono	250MB	$1428
T2100	486DX2/50	10.4" Dual Scan	330MB	1998
T2100	486DX2/50	10.4" Active	330MB	2698
Pro Series				
T2400	486DX2/50	9.5" Dual Scan	250MB	2048
T2400	486DX2/50	9.5" Dual Scan	320MB	2148
T2400	486DX2/50	8.4" Active	250MB	2548
T2400	486DX2/50	8.4" Active	320MB	2698
T2450CT	486DX4/75	9.5" Active	320MB	3098
T2450CT	486DX4/75	9.5" Active	500MB	3198

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Model	Screen	Hard Drive	Price
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486DX4/75	10.3" Dual Scan	510MB	2598
486DX4/75	10.4" Avtive	510MB	3548
486DX4/75	10.4" Avtive	700MB	3798

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486DX2/66	10.4" Dual Scan	340MB	2028
486DX2/66	10.4" Dual Scan	510MB	2148

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486DX2/50	10.3" Dual Scan	340MB	2448
486DX2/50	10.3" Dual Scan	520MB	2798
486DX2/50	10.4" Active	340MB	2648
486DX2/50	10.4" Active	520MB	2848
486DX4/100	10.3" Dual Scan	340MB	2878
486DX4/100	10.3" Dual Scan	520MB	3098
486DX4/100	10.4" Active	340MB	3278
486DX4/100	10.4" Active	520MB	3478

HP OmniBook NoteBook PCs 600 Series
Lightweight with Performance

Processor	Screen	Hard Drive	Price
486DX2/50	8.5" Dual Scan	170MB	$2298
486DX2/50	8.5" Dual Scan	260MB	2448
486DX4/75	8.5" Dual Scan	170MB	2748
486DX4/75	8.5" Dual Scan	260MB	2928

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HP DeskJet 540	288.00
HP DeskJet 660C	478.00
HP DeskJet 1200C	998.00
HP DeskWriter 320	288.00
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- 16-Bit Sound, speaker, microphone & MIDI

Processor	Screen	Hard Drive	Price
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Pentium 75MHz	10.4" Active	772MB	5498

TravelMate 4000M
- Brilliant color display
- 2Type II of 1 Type III PCMCIA slots
- 16-Bit Sound card

Processor	Screen	Hard Drive	Price
486DX2/50	9.5" Dual Scan	340MB	$2068
486DX2/50	8.4" Active	455MB	2298
486DX4/75	9.5" Dual Scan	455MB	2398
486DX4/75	8.4" Active	340MB	2648
486DX4/75	8.4" Active	455MB	2898
486DX4/100	9.5" Active	525MB	3798

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Pentium 75	9.5" Active	540MB	4548
Pentium 75	9.5" High Res.	540MB	4898
Pentium 75	9.5" Active	540MB	4898
Pentium 75	9.5" High Res.	810MB	5348

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- 2 Type II or 1 Type III PCMCIA slot
- Removable HD, Floppy, & Screen
- Integrated speaker & microphone

Processor	creen	Hard Drive	Price
486DX4/75	9.5" Dual Scan	340MB	$2698
486DX4/75	9.5" Active	540MB	3398
486DX4/75	9.5" High Res.	540MB	3798
486DX4/100	9.5" True Color	540MB	4148
486DX4/100	9.5" Active	810MB	4248
486DX4/100	9.5" /High Res.	810MB	4648

NEC Versa V
"V" for Value

Processor	Std/Max RAM	Screen	Hard Drive	Price
486DX2/50	4MB/20MB	9.5" Dual Scan	250MB	$2198
486DX2/50	4MB/20MB	9.5" Dual Scan	340MB	2348
486DX2/50	4MB/20MB	9.5" Active	250MB	2348
486DX2/50	4MB/20MB	9.5" Active	340MB	2548
486DX2/50	4MB/20MB	9.5" Active	540MB	2848
486DX4/75	4MB/20MB	9.5" Active	340MB	2748
486DX4/75	4MB/20MB	9.5" Active	540MB	3048

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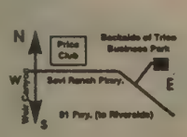

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Panasonic 579BP 4-Speed Int. IDE	178
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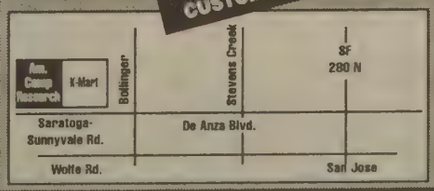

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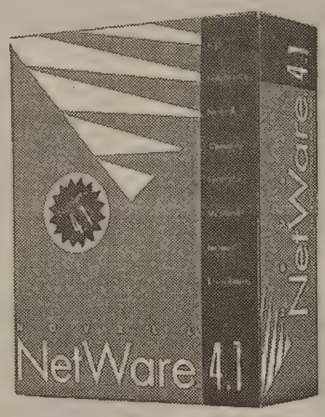

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ing and leave a message, too. These messages are all recorded on computer chips, rather than on tape, so you can scan through them for review or deletion selectively rather than sequentially.

You can even create project-by-project greetings to deal with individual colleagues. So when Sally calls to see how you're coming with the mail merge you promised her, she can hear your voice saying: "Hi, Sally. I've finished the mail merge and sent the file to your emailbox. I'm on the other line with Joe right now, so I'll call you back around 4 pm."

The M9516 can also speak and can announce the names of each person who calls—before you pick up the telephone. You can also program it to direct calls whose return phone numbers have been electronically blocked—such calls are frequently from sales people—to a special mailbox so you never have to answer them again.

Another programming option lets the machine answer calls and give an opening announcement, then lets the caller select whether to leave a message or ring through so you can answer.

These shunting and announcing capabilities can be valuable to telecommuters who want to prevent interruptions when they're concentrating on something important. For example, use the machine to screen your calls and answer only those you want, or let it give out customized messages to people while you focus on meeting your deadline.

If you can obtain the Distinctive Ringing service from your telephone company (which puts more than one incoming number on a single telephone line), the M9516 can give different answers to each of the different numbers. In addition, it can automatically route calls to one of the numbers to your fax machine—saving the cost of a special switch to do just this small task.

Naturally, the M9516 works with a headset, offers all its features via remote access, and even provides a call timer to help keep busy telecommuters on schedule.

For more details about the M9516, contact Northern Telecom locally, or phone the company at 1-800-4-NORTEL for product information and a local referral. ■

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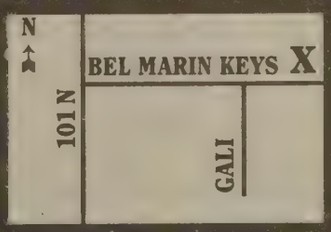

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UNIX • BY BENNETT FALK

A LINUX Adventure

The Latest UNIX Clone

The history of UNIX for personal computers is a long and twisted affair.

There were undoubtedly people who tried to port at least some of the UNIX utilities to systems using 8-bit processors (like the Zilog Z-80). When 16-bit processors became available in the early 1980s, there was some reasonable hope of moving the UNIX kernel to a personal computer to create a multitasking and possibly multiuser environment on the PC. The first version of XENIX implemented UNIX v7 for Intel processors (and briefly for the Motorola-based Apple Lisa). The Santa Cruz Operation took over XENIX and ran with it, building a successful company on the notion of providing UNIX alternatives for Intel-based personal computers.

SCO has hardly been alone in providing commercial versions of UNIX for personal computers. Interactive Systems produced a version of UNIX System V for Intel-based machines. When Sun introduced a hardware line based on the Intel 386 processor, a port of its Berkeley UNIX-based operating system was developed. More recently, Sun has made its Solaris OS (a UNIX System V implementation) available for 386 and later Intel processors. And of course, Novell produces an Intel version of its UnixWare OS.

Alongside the official UNIX versions (based on source code from AT&T or from the Berkeley Software Distribution), there are also UNIX clones. Some of these (like Coherent from the Mark Williams Co.) are commercial products. Others, like Minix, started out as research projects and are not commercial in the usual sense.

LINUX

The latest of the UNIX clones for personal computers is LINUX, a 32-bit POSIX-compatible operating system for the 386 and later Intel processors. Linus Torvalds, LINUX's principal author, first released the operating system in October of 1991. LINUX was not then (and is not now) a commercial product. Instead, it is something like a programming project around which a cult has formed.

A LINUX distribution will typically include both the compiled operating system, a collection of supporting utilities, and source code for everything that the distribution provides.

LINUX is robust enough to support virtually all the goodies that make commercial UNIX systems usable. There's a complete development system, a version of the X Window graphical user interface (provided by the XFree86 Project), and network support.

A great deal of work has already been done to port popular applications and utilities (perl and Tcl, for example) to LINUX. The directory of software available for LINUX systems includes eighteen hundred entries, consisting mostly of applications and utilities available via anonymous ftp. (Consult the LINUX Documentation Project Home Page mentioned below for a pointer to this directory.)

LINUX itself is freely available from a variety of Internet sources and bulletin boards. These days, even free software needs the protection of a license agreement, and the original LINUX license *prohibited* any exchange of money for LINUX. Subsequently this agreement was replaced by the GNU General Public License. Consequently, it is possible to buy complete LINUX systems for a nominal charge from a number of vendors.

> Because LINUX is ***freely distributable,*** you'll find a number of ***alternative*** LINUX releases whose ***contents and packaging*** differ. Choosing among these alternatives ***can be problematic.***

LINUX Support

One of the tricky things about free software is finding good sources for support and advice; this is one area where the LINUX community excels. Information about LINUX is distributed informally through the usual channels for Internet distribution. There are several newsgroups devoted to LINUX (see *comp.os.linux* for a start). A FAQ (maintained by Ian Jackson) was produced. LINUX is also supported by a series of HOWTO articles that form part of the LINUX documentation.

There are various Web sites that collect LINUX information. The best overview of LINUX information is the LINUX

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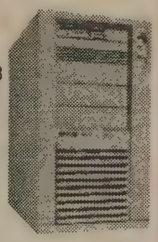

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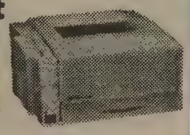

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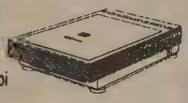

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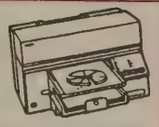

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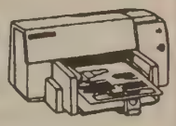

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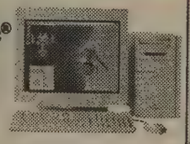

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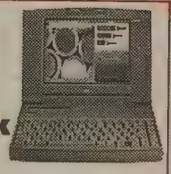

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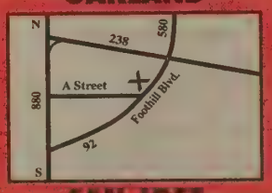

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Documentation Project (LDP) Home Page (*http://sunsite.unc.edu/mdw/linux.html*) maintained by Matt Welsh.

LINUX is also the subject of a new book from O'Reilly and Associates *Running LINUX* by Matt Welsh and Lar Kaufman (ISBN: 1-56592-100-3). (This 600-page book covers virtually everything about installing, using, and administering LINUX and related products like the XFree86 GUI. Enough of the book's content applies to UNIX systems generally that it may be the best single-volume book available for topics of interest to UNIX users.)

Entry-Level UNIX: Not For The Faint Of Heart

If you're an earnest seeker after truth about UNIX and related things, and if you've got a 386-, 486-, or Pentium-based machine, LINUX is an inexpensive way to satisfy your curiosity.

There are, of course, a couple of drawbacks.

First, because LINUX is freely distributable, you'll find a number of alternative LINUX releases whose contents and packaging differ. Choosing among these alternatives can be problematic. It's not that any of them are bad, it's just that you need to do some market research and judge for yourself how experimental you want to be.

The LINUX Distribution HOWTO article provides an overview (updated periodically) of what distributions are available. LINUX distributions have weird names. Among those you'll want to remember are Slackware, MCC-Interim, TAMU (Texas A&M University), Debian, and BOGUS, all of which are available via ftp.

The Xdenu distribution discussed below isn't mentioned in the HOWTO article.

There are companies that distribute LINUX, typically via CD-ROM: Yggdrasil Computing in San Jose, Red Hat Software in Chapel Hill, NC, and Nascent Technology in Sunnyvale.

A second drawback is the amount of space needed to install a LINUX release. According to some sources, 10MB is the absolute minimum a LINUX system might require, 80MB would support a reasonably complete version of LINUX and X Window, and a development system could take as much as 200MB. For the earnest but casual seeker after truth, this may be too serious an investment. (Even if you've got the disk space, collecting a large LINUX distribution via ftp can be pretty tedious. The CD-ROM alternative is very attractive by comparison.)

Finally, LINUX uses a UNIX-style file system that is in fact very spiffy, but doesn't have much in common with the MS-DOS FAT file system that is probably already in use on your personal computer. This problem is not unique to LINUX. Virtually every UNIX implementation faces something similar. In most cases, the remedy is to reserve either an entire disk or a disk partition for a UNIX-style file system. (In the rich tapestry of human experi-

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ence, repartitioning a hard disk falls somewhere between filling out your own income tax forms and getting a root canal. Don't do it if you don't have to.)

The file system differences raise the ugly question of how DOS and LINUX (or any other UNIX version) will coexist. This problem is not insoluble, but it does put a damper on the casual user's enthusiasm.

Fortunately there is a small, relatively unheralded LINUX distribution that addresses all three of these problems and provides a painless introduction to the world of LINUX. Its name is "Xdenu."

Xdenu

Xdenu is a LINUX package put together by Jorma Rinkinen and Hari Miettinen, two wild and crazy guys from Finland. (I have no idea what the significance of the name "Xdenu" might be.) You can get Xdenu via ftp from *sunsite.unc.edu* (or any of its mirror sites) in the *pub/LINUX/distributions/* directory.

Xdenu is a tiny subset of LINUX that can be installed in an MS-DOS file system without repartitioning. This is accomplished through the miracle of the "umsdos" file system which allows LINUX files and directories to be installed among existing DOS directories. The resulting file system does not perform as well as an installation on a dedicated partition, but so far, the ease of use has far outweighed performance considerations.

The basic Xdenu package contains a LINUX kernel and roughly one hundred utilities (including vi, telnet, and ftp). Xdenu doesn't contain any of the software development facilities you'll find in complete LINUX installations, but it does include TCP/IP network support (ftp and telnet are provided), and can be extended with a modestly sized X Window display server.

An X Window display server for Xdenu is distributed in a separate file (one of the "add-on" kits described below). The X package is also very modest in size. It contains no X client programs. If your PC is on a network where there are other X installations, this is not particularly problematic. Otherwise, you can get LINUX-based X clients via ftp.

Xdenu is distributed as a single self-extracting archive that fits on a 3.5" diskette. If your PC supports SCSI peripherals, there is a SCSI version of the Xdenu distribution (linuzs.exe). If you don't have SCSI, get the non-SCSI version of Xdenu (linuz.exe) which is somewhat smaller (about 1.3MB instead of 1.4).

To install Xdenu, simply download one of the archives to the hard disk on your DOS machine. From the root directory of your disk, execute the archive. It will unpack itself and build a LINUX file system in a directory named "linux." It will also create a file named "linux.bat" that can be used from DOS to boot the LINUX operating system.

When you execute linux.bat, the LINUX kernel is invoked in place of your DOS session. (You'll have to reboot to return to DOS.) After some initial hardware checks, a LINUX login

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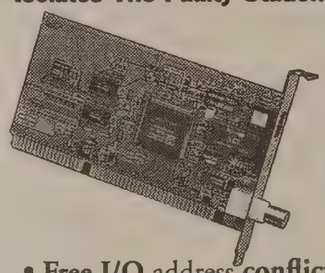

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prompt will appear. When you first boot LINUX, you'll be prompted to log in as "root" (no password) and run a program named "setup," which will lead you through some configuration steps. Running setup takes about five minutes; once setup's complete, your LINUX installation is ready to use. To shut LINUX down, use either the "reboot" or "shutdown" commands.

When installed, the Xdenu operating system itself takes up only about 2.5MB of disk space. The setup program allows you the option of building a swap file for virtual memory support and this will increase the disk space required. Xdenu will run with as little as 4MB of physical memory (although if you intend to add the X Window package, more memory is a big help).

In addition to the basic Xdenu version of LINUX, there are several software "kits" that can be installed with Xdenu: a terminal kit that provides a communications program, a PPP kit that provides an implementation of the Point-to-Point Protocol for Internet access over dialup lines, and a variety of X Window kits for various kinds of display adapters. The additional kits are provided as tar archives that have been compressed with the GNU Zip utility. Utilities for unpacking these archives are provided in the basic Xdenu installation. The additional kits should be installed after Xdenu is installed and running. Each kit comes with a configuration file that prompts for any additional information needed to make the kit usable.

In addition to the kits distributed with Xdenu, you can also supplement Xdenu with utilities from other LINUX sources.

Jorma and Hari did a good job on Xdenu. All they ask in return is that you send them a postcard. ■

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RESOURCES:

Running LINUX (ISBN: 1-56592-100-3)
Matt Welsh and Lar Kaufman
O'Reilly & Associates, 1995
1-800-998-9938

Linux Documentation Project
http://sunsite.unc.edu/mdw/linux.html

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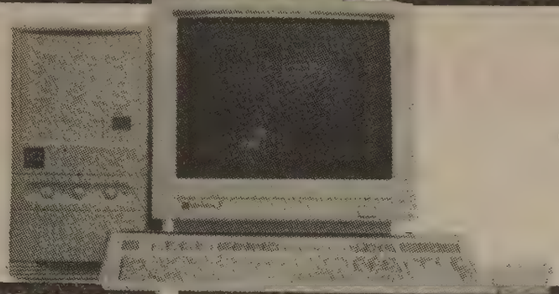

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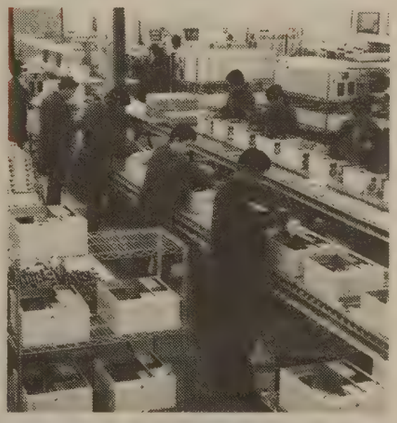

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OS/2 • BY FABIAN PASCAL

More On Notebooks

Searching For An OS/2-Based Notebook To Take On The Road

I have refrained from buying a notebook because I have yet to find one whose combination of measurements (I prefer a subnotebook), features, OS/2 support (see my minimal recommendations below), and price warrants purchasing. Practically all systems on the market are DOS/Windows machines; moreover, OS/2's support of some notebook features—specifically video, PCMCIA, and advanced power management (APM)—is still weak. This does not mean that there are no satisfied OS/2 users of notebooks out there, but rather that all machines have some drawback(s) and users simply vary in their tolerance for it (them).

<LISTING 1: MINIMAL RECOMMENDATIONS>

OS/2 MINIMAL RECOMMENDATIONS

CPU	>=486/100MHZ; 128K CACHE
BUS	PCI OR ISA+VLB
PCMCIA	>= 2II/1III: OS/2 PCMCIA DRIVERS (SOCKET & CARD)
MEMORY	>= 16MB; <= 70NS
VIDEO	>= 10" SCREEN: DUAL-SCAN COLOR
	>= 1MB VRAM
	1024 X 768 (EXT. MONITOR PORT & SVGA DRIVER)
STORAGE	>= 200MB; <=10MS ACCESS; >= 5MB/SEC XFR
POWER	BATTERY: >= 3–4 HRS; HOT SWAP;
	OS/2 APM; FULL POWER MANAGEMENT SUPPORT;
	RESUME MODE

For example, Dell's Latitude XP and AST's Ascentia 910N have many good features, including lithium-ion batteries that are almost a necessity for OS/2's higher energy consumption. You can even get OS/2 preloaded on them. But they are not subnotebooks and don't come cheap. Gateway's Liberty subnotebook looks promising, but it does not officially support OS/2 and is pricey as well. Ergo makes what seems to be a nice subnotebook, the SubBrick, which is not too expensive but, like Gateway, the company does not know whether OS/2 runs on it and, not uncommonly, does not much care.

Some machines with screens larger than 11" or resolution over 800 x 600—e.g. Sharp, NEC, forthcoming Toshiba Protégé models—are starting to appear, but official OS/2 drivers that support this feature are unlikely to become available any time soon (see below).

On the other hand, the HP Omnibook 600C, with its 486/75 CPU, 170 or 260MB hard disk, and up to 16MB of RAM, is a subnotebook that could handle OS/2 well. While not cheap, it's not out of reach. (I particularly like its pop-out mouse—I abhor all other notebook pointing devices.) But OS/2 cannot boot from its PCMCIA hard drive and, therefore, OS/2 won't even install.

Recently, when I was traveling and needed a notebook, I opted for a rental.

Still: Which Notebook?

Rental companies usually lag one or two generations behind the latest models. The range of machines they typically offer is limited—three or four models—with little variation across brands. Moreover, most of the configurations available are Windows-based—486/33–50MHz, with best 8MB of RAM if you are lucky, and a single metal-hydride battery. In other words, below my OS/2 recommendations. An enhancement to any of these features, if available, may more than double the cost of the rental.

In the beginning, my preference was for an IBM ThinkPad 755. Though not a subnotebook, it is a decent notebook likely to encounter minimal problems running OS/2. Unfortunately, the rental rates reflect its high price, thus taking it out of my price range.

Texas Instruments' TravelMate 4000TM models are readily available at reasonable rates. So I logged on to the TI forum on CompuServe and browsed the OS/2-related messages. Quite a few users expressed interest in running OS/2. But while a couple people were actually doing this, the support picture was not very encouraging:

> ...OS/2 does not really *run*...it limps along... TI still has not provided video drivers or APM support for OS/2 two years after I and a lot of other users requested them. Video is limited to 640x480, and there is virtually *none* of the power saving support for OS/2 that is so good for DOS ...this otherwise fine product is a lousy product if you want to run OS/2...

Moreover:

> ... I bought [my TI 486DX25] in the fall of 1992 when it was the top of the line machine, with the specific purpose of running OS/2 on it and was told [in this forum] that support would be forthcoming. Well, here it is late 1994, and it ain't here yet for this machine, or for any machine that has succeeded it, as far as I know!

This was seconded by another user. Lack of APM support is hardly a trivial matter—it is even more important for OS/2 than for DOS and Windows. Without it one user could not "even get an hour of battery life."

Whatever the promises, as late as January

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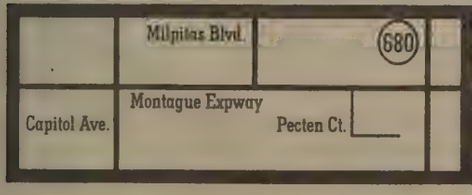

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1995 the TI position stated in the forum was:

> We are NOT on the OS/2 compatibility list, and we do not claim to be. And...I'm not sure if there ever will be any other drivers for OS/2.

So much for a TravelMate.

The e.g. next best option was an AST Ascentia 900N. At over 6lbs. and without the lithium-ion battery of the newer 910N model, the base configuration—486/50, 8MB RAM, 340MB hard drive—was nevertheless affordable. (The base RAM would allow me to test the claim that OS/2 runs well with 8MB of RAM, of which I was skeptical—see last column.)

The AST forum revealed a better situation than TI's, various quirks notwithstanding. Warp comes with a driver for the 900N's Western Digital video chip, which supports 256 colors in VGA mode. In addition, an upgrade claimed to be customized for LCD screens and, thus faster, was also available for downloading. There was an upgrade for the PCMCIA drivers too (Warp's supports only the older 800N model). One user reported recognition of his PCMCIA Megahertz modem, something I was unable to achieve with notebooks reviewed in previous columns.

Warp Installation

A convenient way to handle a desktop/notebook combination is via PCMCIA cards. With a PCMCIA socket in your desktop, both it and the notebook could exchange data on shareable hard drive cards, as well as share faxmodem cards. Makers of PCMCIA drives for the desktop such as Maxtor, DataBook, and DataI/O, however, do not certify their products for OS/2. Ultimately I found a drive maker who does—with some qualifications—so stay tuned.

So, how do you connect a notebook to a CD-ROM drive? Well, some docking stations offer access to SCSI drives, but buying (let alone renting) one may not be feasible. Another option is a PCMCIA-to-SCSI card, which plugs into a notebook's PCMCIA slot and connects to any SCSI device with a cable, acting like a SCSI controller. For example, QLogic's Fast!PCMCIA-10 does just that and there is even a beta OS/2 driver to boot... well, booting is actually a problem. You can use the card to access a SCSI drive from a notebook running OS/2, but you won't be able to install OS/2 from CD-ROM, because Warp does not support PCMCIA at bootup and, thus, it does not recognize the CD-ROM drive through a PCMCIA card. One user reported installing Warp using a PCMCIA-to-parallel card. Otherwise, you will have to install Warp from diskettes.

Practically all notebooks come preloaded with DOS, Windows, vendor system utilities, and some drivers (e.g., PCMCIA), usually stored on a primary whole disk DOS partition. Now, I've always recommended a DOS (and Windows, if desired) boot partition, and separate partitions for OS/2 and applications/data. But creating any new partitions in the above circumstances would mean:

- backing up the hard disk
- deleting existing partition(s)
- repartitioning the hard disk
- reinstalling DOS/Windows

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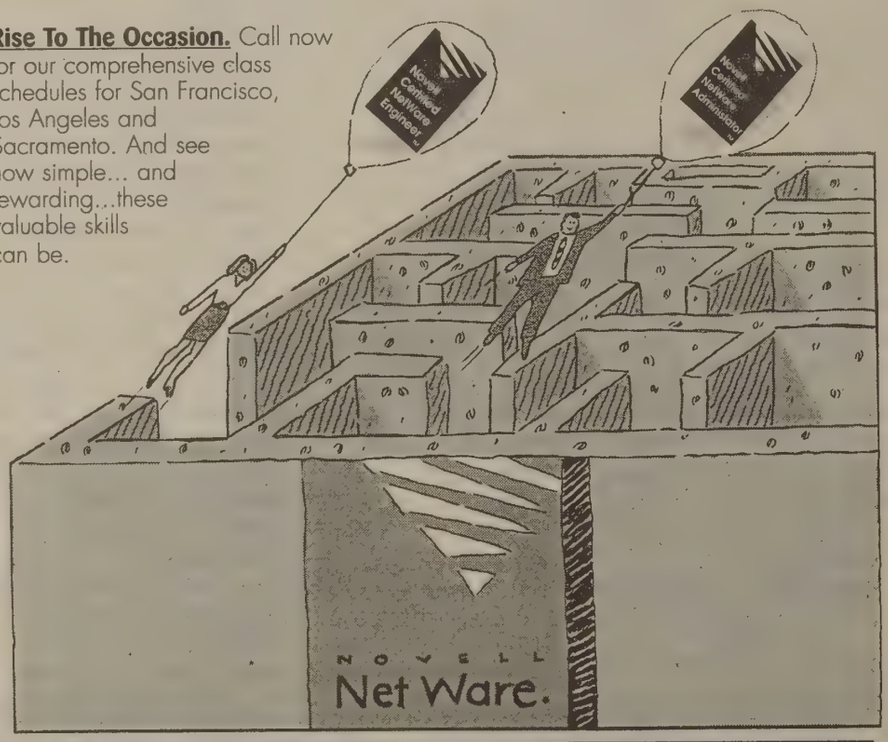

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- o 14" SVGA .28 NI Monitor
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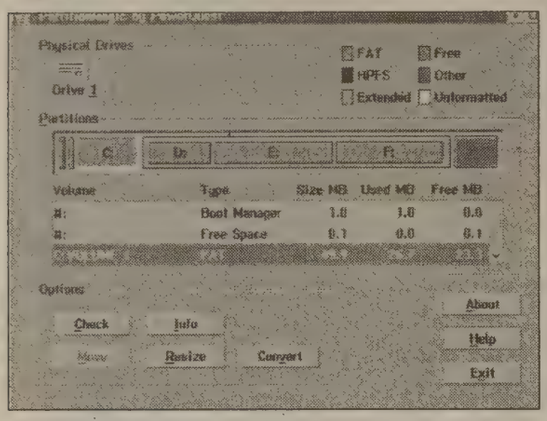
Figure 2



This is rather tedious and, in fact, more so with laptops. Most notebook vendors—AST among them—do not provide diskettes with their machines. Rather, disk images of the preloaded software are packed onto the hard disk with a utility that also allows you to create the disks yourself—about two full boxes of them in AST's case!

Note: This also means that rental companies must produce the diskettes and provide them to renters upon request—both of which they are reluctant to do.

Why, in this day and age, any operating system would not provide a nondestructive repartitioning capability is a mystery to me. But finally a vendor realized this lapse and developed a utility, aptly called PartitionMagic, which shrinks, expands, and converts partitions without destroying the data. Not only is it an OS/2 utility, but it comes with a DOS program with WPS looks and instructions on repartitioning a DOS/Windows hard disk for OS/2 installation.

PartitionMagic is simplicity itself. You boot DOS and load the DOS version of the program, getting the screen in Figure 2 (which looks exactly like its OS/2 counterpart).

First, you click on the Resize button and drag the C: partition to whatever size you want your DOS/Windows partition to be (minimum is 50MB). You then click on the Move button and adjust the shrunk partition by 1MB to free 1MB at the beginning of the disk for Boot Manager. That's it—you can now install OS/2!

The installation had some quirks. For unknown reasons, the first install attempt failed after disk 7. The second install completed, but the Boot Manager menu would no longer appear. Since this occurred on my desktop system after deleting a partition with FDISK, it may be a bug in Warp—the master boot record gets corrupted. There is an undocumented way to recover it: Boot OS/2 from diskette and run FDISK /NEWMBR.

Running OS/2

While windowing at VGA on a small 10" screen is usable, I also find it annoying.

Performance Plus recommends a 9MB swapper, validating my claim that with 8MB of RAM even OS/2 itself will swap—slowing down performance. This situation won't be acceptable for multitasking native applications handling

continued on page 320

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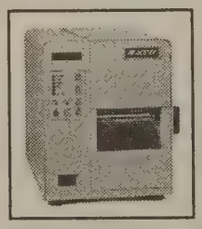

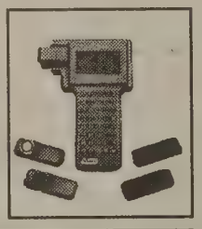

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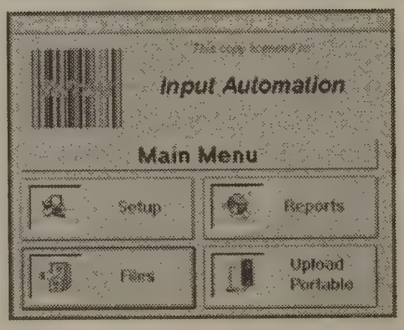

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XL1502 (2BNC/2RJ11)....1,465
XL1503 (1BNC/1RJ11/1AUI)....1,1104
XL1504 (4BNC/4RJ11/1AUI)....2,850
XL600+ 600' Repeater (1 Pair)....483
Dual Port Repeater BNC/BNC....293
Quad/Octo Port Repeater (4 BNC/8 BNC)....368/662

Tape Backup Solutions

ARCADA Backup Exec Single Server 25 Users....339
Backup Exec Single Server Unlimited Users....472
Backup Exec NetWare Enterprise NLM....871
CHEYENNE ARCserve v5.01 NLM 5/10....261/511
ARCserve 25/50 users....882/1,082
ARCserve v5.01 100/250 users....1,198/1,503
ARCserve v5.01 500/1000....2,551/5,842
Changer Option for v5.0/Stacker Option....456/470
PALINDROME Backup Director NLM 1 SVR (25 Users)....256
Backup Director NLM 1 SVR....585
Backup Director NLM Multi-Server....1,011
Storage Manager (25 users)....722
Storage Manager Single Server/Multi-Server....1,435/2,522
COLORADO Power Tape 1.1GB w/o Ctrl....696
Power Tape Int. 2GB SCSI Tape Drive w/Ctrl....1,065
Power Tape 50-4 GB SCSI Tape Drive w/Ctrl....1,295
EXABYTE 8505XL 8mm 7-14GB Drive Int/Ext....2,214/2,410
HEWLETT PACKARD 4mm 4-8GB DAT Int/Ext....948/1,098

Bridges/Routers

Rockwell NetHopper NH-5 Remote Access Router....CALL
NetHopper NH-P NetWare Async Rtr w/v.34....1,542
NetHopper NH-SYNC+ Sync Router....CALL
MOTOROLA DDS/MR64 V.35 or RS232....463

Switching Hubs

Kalpana EPS500 EtherSwitch 5-pt w/SNMP /Full Dplx....2,352
EPS2015-041 EtherSwitch 15-pt....4,888
NLM Load Balancing Software....441
SMC TigerSwitch XE 24-pt....6,926

Remote Access

CITRIX WinView Software 10-User....2,354
NOVELL NetWare Connect 2/8/32 pts....444/1,602/4,382
NetWare Connect 2-port w/Modem and Serial I/O....1,181
NetWare Connect 8-port w/Modem and Serial I/O....4,337
SHIVA Net Modem/E 28.8....1,537
Lanrover/2E Plus....2,501
Lanrover/E 3.5 8prt....3,847
Lanrover/E Plus Async 8prt w/o modems....5,179
Lanrover/E Plus 8-port v.34....7,898
DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt....200/455/588
U.S. ROBOTICS 2-port Lan Modem Enet/TR....1,590/1,986
XIRCOM NetAccess 4-pt/8-pt....2,609/4,563

ISDN Connectivity

ASCEND Pipeline 50 Single ISDN....800
COMBINET ISDN PC card w/o NT1/w NT1....388/543
ISDN PC card w/Compression/w/ Comp. & NT1....466/621
ISDN SOHO 4 users/unlimited....776/1,164
ISDN Remote Office 4 users w/NT1....931
ISDN Remote Office Unlimited w/NT1....1,318
ISDN PRI Enterprise Access Server....3,539
CISCO Systems LAN2LAN Personal Office ISDN-BRI....506
LAN2LAN Remote Office ISDN-BRI....1,412
LAN2LAN Enterprise ISDN-BRI/4 BRI....1,925/3,995
DIGI Datafire 16 Bit ISDN (PPP)....409
PC-IMAC ISDN....533
PC-IMAC Multiport ISDN/4-1/4-2/4-4....672/1,064/2,092
GANDALF Lanline 5240I ISDN Bridge w/o NT-1....1,895
Lanline 5242I ISDN Bridge w/Analog....1,051
Lanline 5242I ISDN Bridge w/o Analog....830
ISDN*tek-Connect to Internet via ISDN
CyberSpace Internet+ Card w/NT1....399
CyberSpace Commuter+ Card w/NT1....499
IBM WaveRunner ISDN iSA/MCA....562/562
7845 Extended NT1 for voice/data....357
HAYES ISDN Adapter....733
MOTOROLA UTA220 ISDN-w/NT1....616
HMTA200 ISDN/v.32/Fax w/NT1....711
TA210 ISDN Terminal Adapter w/NT1....409
NT1D Network Terminator....186

Network Printing Solutions

CASTELLE Jetpress XIO BNC/10Base-T....381
Jetpress MIO for HP4/MIO PLUS....349/451
LANPress 10BT (1 PAR)....313
LANPress THIN/10BT (1PAR/1SER)....362
LANPress THICK/10BT (2 PAR/2SER)....512
HEWLETT PACKARD JetDirect 10BT MIO....330
JetDirect Combo MIO BNC/10BT....400
JetDirect Token Ring....567
JetDirect EX 3 ports....487
INTEL Netport EL Ethernet/Token Ring....427/588
NetportExpress XL for Ethernet/Token Ring....475/660
MILAN Fastport 3000 1P/1S, BNC/10BT....459
Fastport 3100....710
Fastport 3500X TR Multi-Protocol....654

Network Fax Solutions

CASTELLE FaxPress 1000, 10BT/BNC....1,576
CHEYENNE FaxServe 3 NLM 5/10/25....393/717/1,177
FaxServe 3 NLM 50/100....1,816/2,533
FaxServe 3 NLM 250/500....3,801/4,982
FaxServe 3 NLM 1000....6,229
INTEL Net Satisfaxtion for 8 fax boards (25 users)....786
Net Satisfaxtion (1000 users)....1,040
DELRINA Winfax Pro for Networks (Server)....125
10/25/50/ Users....675/1,509/2,851
Starter Kit (1 Server, 2 nodes)....274
PURE DATA Satisfaxtion Modem 200/400....244/315
U.S. ROBOTICS Ethernet Fax Server....1,970
Token Ring Fax Server....2,227

Network CD-ROM

MERIDIAN CD-Net for DOS v4.31 (10 Users)....467
CD-Net for DOS v4.6 (10 Users/WAN)....648
CD-Net for NetWare (NLM-10 Users)....467
CD-Net for NetWare 100/250 Users....938/1,445
MICRO DESIGN SCSI Express for NetWare, MDI....599
SCSI Express for NW3/4, Non-MDI(25 Users)....910
SCSI Express for NW3/4, Non-MDI(1,000 Users)....1,332
CD-Rom LaserBank 600CD Ext. Single/Dual....599/1,117
MICROTEST Discport Ethernet/Token Ring....716/1,066
Discport w/NEC Ext. Quad Speed CD-Rom....1,282
Discport w/NEC 4-Unit/7-Unit Tower....2,906/4,249
DiscServ NLM....558

Uninterruptible Power Supplies

APC Back-UPS 400/450....163/200
Back-UPS 600/900/1250....273/392/512
Powerchute Plus for Novell/Unix....99/149
Smart-UPS 400/600/600RM/900....320/382/496/544
Smart-UPS 1250/1250RM/2000RM....674/805/1,176
Smart-UPS SERIES W/PC+ AP600NET....445
AP900NET/AP1250NET/AP2000NET....607/739/1,240
Matrix 3000/5000/Smartcell....3,720/4,616/537
SNMP Agent for Novell/SNMP Mgr for Netware....125/145

Cable Testers & Supplies

RG58 & RG62 Rachet BNC Crimper/RJ45....45
RG58 Ethernet BNC-Crimp (100 pak)....125
RJ45 10 BaseT Connectors (100 pak)....40
10Base-T Cable (1000' min) LV3/LV 5....100/200
BELDEN PVC RG58 or RG62 Cable (1000' min)....175
PLENUM RG58 or RG62 Cable (1000' min)....350
MICROTEST MT310 Kit....739
MT350 Value Kit/Fiber Solution Kit....1,837/1,482
Penta Scanner/Compas Kit....2,706/3,967

Novell Software

Lan WorkPlace for DOS Single/10 Users....309/1,508
Lan Workplace for Mac Single/10 Users....289/1,437
Lan WorkGroup-5/10/20 Users....1,125/1,866/2,613
NetWare for Mac v3.12 200 Users/4.01....685/851
Multiprotocol Router/MPR Router Plus....720/1,032
NetWare NFS Single/5-pk....3,215/10,537
NetWare NFS Starter Kit....1,095
NetWare NFS Gateway 5/10 User....1,040/2,156
Global MHS v2.0 20/50/100 Users....358/648/1,064
MHS v1.5 Network Edition 10/50/100 Users....140/504/733
MHS Multi-Network Edition 10 Users....140
Personal NetWare Single/5-Users....79/279

E-Mail

cc:MAIL Desktop-Any Platform....72
Lan Systems License 10 users/50 Users....632/2,883
Group Pack 10-pack DOS/WIN....638
Mobile for DOS or MAC....150
Router/Fax....95/1,459
Link to SMTP v2.0/Link to UUCP....2,473/370
MICROSOFT PC Mail Server + 10 Users....485
PC Mail 5/20/100 Users....273/930/3,633
MHS Gateway/PROFS....708/3,405
SMTP/X400/Fax Gateway....3,173/3,194/1,419

Network Utilities

SYMANTEC Anti-Virus for NetWare 10/25....805/1,378
CHEYENNE InocuLAN 20/250 workstations....326/655
InocuLAN Option 25/100/250/1000....133/190/260/325
Utils for NetWare....257
COREL Network (RAID/CDROM/OPTICAL sw)....420
DIRECT ACCESS Network Menu....425
FUNK App Meter....464
FRYE Early Warning System or Lan Directory....339
INTEL LanDesk Virus Protect (Single)....696
LanDesk Virus Protect 4-pk/20-pk....2,070/6,757
MICROTEST Lan Assist or Map Assist....211
SYMANTEC Norton Admin. 5/10 Users....247/438
Norton Admin. 25/50/100 Users....1,068/2,028/3,680

Peer-to-Peer Networking

ARTISOFT LANtastic 6.0 Network Starter Kit....244
LANtastic 6.0 Add-On Kit Coax/10BT....131
LANtastic 6.0 Software Single/5/10 User....99/354/637
LANtastic Management Serv./Advan....144/578
Central Station NetWare....447
Noderunner/SI Coax or TP/Combo....109/129
Lantastic for MAC....433
Lantastic for TCP/IP Single/5 Pk....220/883
CorStream 5/10/25/50 Users....699/1,362/2,209/2,754

Groupware

LOTUS Notes Starter Pack for NetWare....921
Group Pack (1 Server and 10 Nodes)....4,434
Server for OS/2/Win/SCO/AIX/SUN/HPUX....384
Clients for OS/2/Win/MAC/SCO/AIX/SUN/HPUX....372
Client Licenses 1/10/20....328/3,111/6,235
Document Imaging Server....2,711
Inbound or Outbound FAX gateway....2,233

Server Mirroring

EAGLE NMSL/C Mirror Server Link....806
NMSL/F Mirror Server Link....1,174
MICRODYNE NMSL/C Mirror Server Link....826

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UMiracle 486 Green ISA VLB

- 486 ISA VLB 256K Cache EPA Green Motherboard
- 4MB 70ns 72Pin SIMM RAM (4MB x 1pc)
- Fast 32Bit VLB Enhanced Mode-3/4 IDE Controller w/ 2S/1P/1G
- 1.44M TEAC Floppy Drive
- 540MB Quantum E-IDE QM30540MVA HD
- Trident 9440 VLB 1MB Windows Accelerator
- 14" 1Kx768NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard

READY TO GO

66DX2-$887
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UMiracle 486 PCI

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- 486 UMiracle ISA PCI 256K Cache Green Motherboard w/E-IDE, Floppy Port, High-Speed 2S/1P
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UMiracle Pentium PCI

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- 540MB Quantum E-IDE QM30540MVA HD
- Trident 9440 PCI 1MB Windows Accelerator
- 14" 1Kx768NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
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75MHz $1267
90MHz $1351
100MHz $1481

READY TO GO

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- 1.44M TEAC Floppy Drive
- 850MB WD Enhanced IDE WD2850A HD
- Diamond Stealth 64 PCI S3-864 2MB DRAM
- Hitachi SuperScan 15S 0.28DP Green Monitor
- Premium Digital Medium Tower 230W PS
- Keytronic 101 Enhanced Keyboard

75MHz $1652
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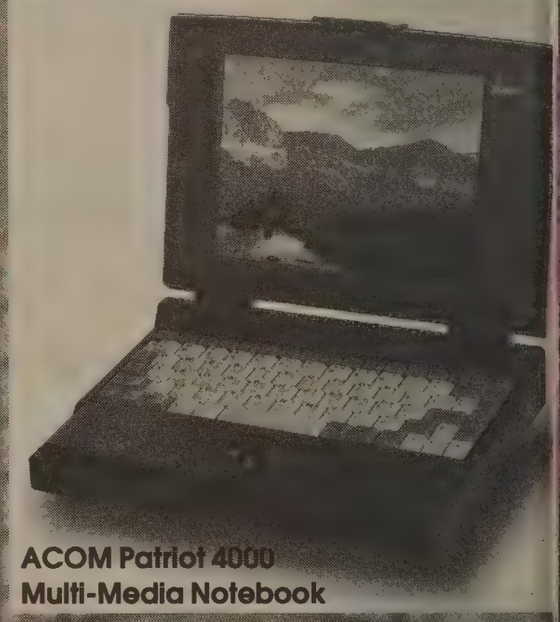

ACOM Patriot 4000
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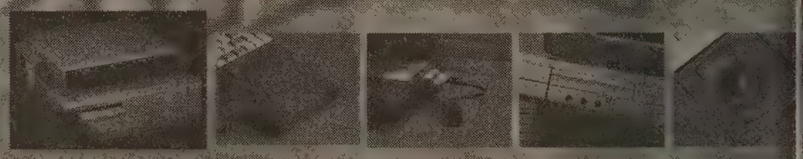

Support two rechargeable battery packs with warm swap function
Internal universal switching AC/DC adapter
Long operation time
Small battery 4 pound
Quick charger 4 hours

Audio Function
- Digital audio
- Record, compress, store and playback voice, sound and music in mask
- Microsoft multimedia system sound master compatible
- Microsoft wavetable and media player compatible
- Built-in microphone
- Built-in speaker
- Audio software
- Audio recorder, audio reminder, audio clip library, stop watch, talking calculator and chime

11.4x8.5x1.35" (diagonal dim. slot)
11.4x8.7x2.0" (active corn.)

Docking Station

Expansion Slots
- Three full-length 16 bit ISA slots
- One half-length 16 bit ISA slot

Bays
- Two 5.25" opened drive bays
- One 3.5" internal drive bay
- One battery charger or 3.5" floppy slot

Sub-systems Features
- Serial ports, Parallel port
- External keyboard port
- PS/2 mouse port
- 15-pin external video port

Power system
- 110/230V, 150W switchable power supply

Physical
- 14.34"(w)x14.34"(d)x3.72(front)" and 6.35(rear)"(h)

Optional Devices
- One CD-ROM Drive & one 5.25" SCSI device
- One 3.5" full size hard disk (SCSI type)

(520/710/810MB HD)	Mono VGA	Dual Scan 10.3"	Active Maxtrix
486DX2-50SL	$1485/$1600/$1665	$1745/$1860/$1925	$2525/$2640/$2705
486DX2-66SL	$1530/$1645/$1710	$1790/$1905/$1970	$2570/$2685/$2750
486DX4-100	$1615/$1730/$1795	$1890/$2005/$2070	$2655/$2770/$2835

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P5 Pentium PCI 256K Cache Motherboard with 3 PCI/5 ISA slots,
Adaptec 7850 PCI Fast SCSI-2 onboard, E-IDE, FD, HiSpd IO with cables
16MB 70ns 72Pin SIMM RAM (8MB x 2pcs)
1.44M TEAC Floppy Drive
Seagate 1.08GB Fast SCSI-2 ST31200N Fast SCSI-2
Diamond Stealth 64 Video PCI 2MB VRAM
MAG DX17F 17" 1280x1024NI
Green MPRII VESA DPMS Monitor
Premium Digital Medium Tower 230W PS
Keytronic 101 Enhanced Keyboard

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75MHz $2638 Business leasing: $117
90MHz $2721 Business leasing: $120
100MHz $2852 Business leasing: $126
120MHz $3252 Business leasing: $144
133MHz $3675 Business leasing: $163

UMiracle P5 PCI 90/100MHz Wide SCSI-2

Intel P5 Pentium ISA PCI 512K Cache Motherboard with 3 PCI/5 ISA slots,
Adaptec 7870 PCI Fast WIDE SCSI-2 & Fast SCSI-2 onboard w/cable
E-IDE, HiSpd 16550 Serials, Enhanced Parallel, onboard Floppy interface
16MB 70ns 72Pin SIMM RAM (8MB x 2pcs)
1.44M TEAC Floppy Drive
Seagate 2.1GB Fast Wide SCSI-2 68Pin ST32550W 1" HD
Diamond Stealth 64 Video PCI S3-964 2MB VRAM
MAG DX17F 17" 1280x1024NI Green MPRII VESA DPMS Monitor
Premium Digital Medium Tower 230W PS
Keytronic 101 Enhanced Keyboard

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75MHz $3312 Business leasing: $146
90MHz $3395 Business leasing: $150
100MHz $3526 Business leasing: $156
120MHz $3926 Business leasing: $174
133MHz $4348 Business leasing: $192

AIR Dual P5 Tornado 54CDP EISA PCI 90/100MHz

AIR Dual Pentium 54CDP Tornado EISA PCI 512K Cache Motherboard
with 2 PCI/5 EISA slots, onboard Adaptec 7870 PCI Fast WIDE SCSI-2
& Fast SCSI-2, HiSpd 16550 Serials, Enhanced Parallel, Floppy interface
32MB 70ns 72Pin SIMM RAM (16MB x 2pcs)
1.44M TEAC Floppy Drive
Seagate 2.1GB Fast Wide SCSI-2 68Pin ST32550W 1" HD w/ 68Pin Cable
Diamond Stealth 64 PCI S3-964 2MB VRAM
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Premium Digital Full Tower 250W PS
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90MHz $4195 Business leasing: $185
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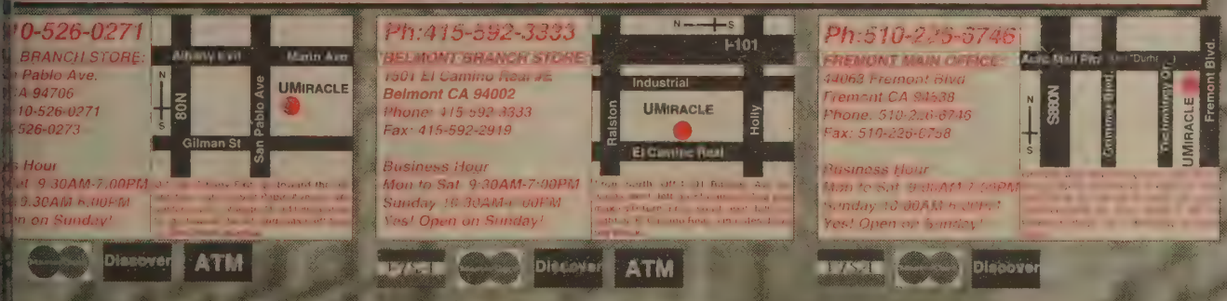
ay Area is a great place when it comes to shopping for a computer - Only if you know what you are uying though. Buying from a PC builder who doesn't even know what AUTOEXEC.BAT is means throw- g your money away and you will end up with pointing fingers here and there. Buying from a PC tegrator like UMiracle means plug and run, peace of mind for your computing life. Afterall, who else ares what those jumpers should be set, whether it is running optimally, and how it works with your ftware? Think smart, think UMiracle !



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-SoundBlaster 32 AWE w/ASP
-120W MultiMedia Stereo Amplified Speakers
-Audio Cable
*Require System SCSI Interface
$745

-Toshiba 3601B SCSI-2 4XSpd, 120ms, 600KB/S*
-SoundBlaster 32 AWE Value
-120W MultiMedia Stereo Amplified Speakers
-Audio Cable
*Require System SCSI Interface
$599

-Toshiba 3601B SCSI-2 4XSpd, 120ms, 600KB/S
-SoundBlaster SCSI w/ASP
-TopTek Stereo Speakers 80W Amplified Channels
-Audio Cable
$563

-Mitsumi FX-400 QuadSpd, ATAPI IDE CD-ROM*
-SoundBlaster 16 Value
-TopTek Stereo Speakers 80W Amplified Channels
-Audio Cable
*Require System E-IDE Interface
$338

-Sony CDU-55E DoubleSpd, ATAPI IDE CD-ROM*
-SoundBlaster 16 Value
-Media 690 Hi-Fi Amplified Stereo Speakers
-Audio Cable
*Require System E-IDE Interface
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486 UMiracle Green ISA PCI 256K with Enhanced IDE, I/O,upto 128MB & 1MB Cache, support 72Pin SIMM, P5 OD suppt, ZIP, Full Deep Green PC EPA compliance - shut off HD, Green Monitor, CPU Slow Down, etc, Award BIOS, Onbrd 3.3V CPU Suppt....$150

Pentium P5-75/90/100 PCI 256K 75/90/100MHz 256K cache, upto 128MB & 1MB cache, suppt 72Pin SIMM, 4 ISA & 4 PCI Slots, Award Green BIOS....$165

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P5 Pentium P5-75/90/100/120/133MHz PCI 256K cache - suppt 72Pin SIMM, upto 192MB, upto 1MB cache , 5 ISA & 3 PCI slots, SIS chipset, with built-in Adaptec SCSI-2 AIC 7850 controller (AHA-2940 equvialent) supporting 50Pin Fast SCSI-2, onbrd Enhanced IDE, Floppy port, High Speed 16550 UART serial ports, Enhanced Parallel port, 50pin SCSI, IDE & Floppy cables & complete software..... $385
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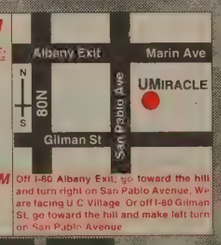

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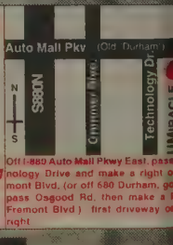

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Good Service, Kind Words Bad Service, Unkind Words

Microsoft Word For Windows 6 vs. Safeware Computer Insurance

The small-office operator is at a double disadvantage. The business is usually run on a financial and energetic shoestring, so there is no time or steam to fight with a large company if they do not deliver what they have promised. At the same time, the small operator is a small market to the big company. If in the end you say, "OK, I'm taking my business elsewhere," just how long do they cry in the boardroom?

The long-term answer is cooperative purchasing by small businesses. In the meantime, read about other people's experiences.

Part of the critic's job is to deliver kind and unkind words about products. I try to modify this in practice. If a small company makes a piece of junk, I just ignore it. No one needs to spill ink panning some little person's attempt. If a big company gives bad service or delivers junk to the user, the situation is different. It is part of my job to report my experience with them, because the reader may be considering their products. If anyone, big or small, has done well, it should also be told.

This month, I look at my experience with Safeware, the insurance company that specializes in coverage for computers, and with Microsoft. In both cases I relied on them, and I got various results. Safeware got very good marks. Microsoft got a much less complimentary evaluation.

YMMV, as they say on the Net: "Your mileage may vary." These are my experiences; they may not be yours.

Oh, No, Mr. Bill...

In writing this review, Microsoft Word for Windows 6 (6.0c to be exact) crashed several times. In fact it has crashed at least ten times in the last few weeks.

Symptom-set number one: I start to load Word for Windows. It stops part way through the load and announces that there is not enough room. Since there are 8MB in there, it seems unreasonable that a couple of dinky little utilities should crowd out the mighty Word. I mutter, but unload them. In an empty Windows I try to reload Word. "Not enough memory." Huh?

As a last try, I remove all the programs in my startup folder and reboot. Now Windows is empty and has been since it came up. Still the system announces there is no room for Word.

Symptom-set number two: I am typing along in Microsoft Word for Windows 6.0c, and suddenly it is gone. No "general protection fault." In fact, no Windows. There is only a black screen. Sometimes there is a message that says "unable to load Command.Com." Sometimes there is only a cursor flashing on a lonely screen. Control-Alt-Delete doesn't work. Nothing works, except turning off the computer. I am curious why Microsoft has written a program that can collapse itself right past the built-in safeguards which stop other programs from crashing Windows.

I don't have any answer. Like many other users, I get products to try out, to use, not to vivisect. When one behaves badly, I do the same thing as most users—I call the experts.

So I telephoned Microsoft. Unlimited support is free, says the answering robot—but that is a misnomer. The call is not free. For me it costs 27 cents a minute to call up to Washington. I get to listen to Radio Microsoft while I wait. There's music, and a pleasant-voiced woman who tells you that "There are five calls waiting in the Word for Windows group. The longest wait there is eight minutes." My calls took around half an hour each.

When I did get in, I was *very* impressed with the technicians I spoke with. They were patient and extremely competent as teachers. They talked me through every step in a detailed process to clean up some files. The problem is that, while they were competent and helpful, what they suggested did not solve all the problems. They did give me a recipe for convincing Windows that it could load Word 6. I needed to erase some of the files that Word uses to set itself up. The "normal" template (NORMAL.DOT) had to go. So did a file called WINWORD.OPT.

Then I needed to go into the file manager and do a wholesale cleanup of .TMP files.

Scratching my head, wondering why I

I speculate that this version of Word for Windows got **out the door** before testing was completed. So **we in small offices** across the country **end up** being the final beta-testers, and **swearers and cursers.**

needed to do this with a product from a major company, I did it. And Word for Windows (6.0c) worked for a few days. Then it decided again that it did not have enough memory to load.

Out of curiosity I called Microsoft again. And I got the same prescription. It was so close to an identical wording that I believe it exists on paper somewhere. And that makes me guess that I am not the only person to have this problem.

I called a third time, this time specifically about the mysterious crashes. Again a competent and pleasant technician had me run CHKDSK /F and then told me to clean out the .TMP files scattered throughout my system. It was all because I had no directory called "temp" to receive them. Poor Word for Windows—stranded, unable to create a directory. Since it couldn't it had dropped little TMP files in various other directories. And when the system crashed, it left lost clusters all over. Those fragments confused it when it was reinvoked.

It has now been almost twenty hours since Word for Windows—that's version 6.0c, Bill; I know you'll want to get right on it—crashed the last time. Maybe it is fixed. But my file manager tells me that the temp directory has six temp files in it that I did not put there. I hope Word for Windows knows what it is doing. It may not, though, because I do run other programs. "It could be that other program," one of the technicians had confided. "It doesn't like After Dark for Windows." I'm not running After Dark, but I must say I am not reassured.

Now some pure speculation, and some speculative extrapolation:

Since I have done a little work with object-oriented languages, this class of problem gives me the willies. It is the sort of trouble that arises when an object-oriented system is built by people in a desperate hurry. Each object in an OOS is like a separate program, with its own data, memory, and procedures. The objects interact with each other much like programs in a multi-program environment.

When they interact well, the positive results are like the synergy of a symphony: much more than the sum of the parts. When they interact badly, however, they crash in entertaining and bizarre ways.

Object-oriented systems are beloved of large corporations because different departments can work on different objects. Then you can pour them all into one box, and voila—a software product. You can even reuse objects in other programs. Lovely stuff, with economies of scale and all that. It would be especially appealing to a corporation like Microsoft, which sells a version of C++, the object-oriented language of choice.

The bad news is that object-oriented systems need to be tested for all those entertaining-and-bizarre crash potentialities. It is exactly the problem written of two months ago in this same column, when discussing file conversions. The number of possible problems goes up with the square of the number of objects.

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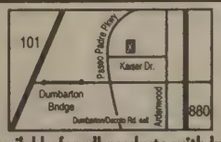

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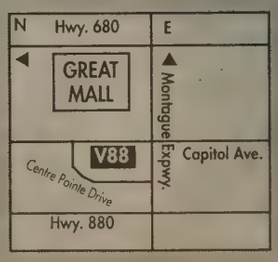

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So I speculate that this version of Word for Windows got out the door before that testing was completed. There were repairs and patches, which is why we are using 6.0c instead of 6.0a or b. But perhaps they missed a few bugs. So we in small offices across the country end up being the final beta-testers, and swearers and cursers.

The bottom line is this: The rest of my office is staying with rock-solid Word for Windows 2. I hope the next version of WFW works better. And I am quite doubtful about how well Windows 95 will work, if Microsoft let its flagship word processor out in this condition.

Grade for Microsoft on this one: C-. It avoided flunking only because those techs were *so* patient.

Safeware And Me: It Was A Dark And Stormy Night

...such as we had this year in California. The winds bearing rain came from the West and blew almost horizontal. They carried rain up and under the roof of our San Francisco cottage. More water came in than I have ever seen before. I was surprised and horrified to see all the places it had gotten to. I was doubly horrified when I tried to turn on my computer. One of the leaks had fallen into the monitor.

It made a weak crunching sound, and was no more. As a computer-writer, I was out of business.

For the last few years, I have, every April, sent money off to Safeware Computer Insurance. I do this because my other insurance will not cover property used for business. I always wondered if I was just pouring money down the drain.

We all have interesting experiences with insurance companies. I will not soon forget the triumph in the voice of a claims representative, as she said her client was not responsible for some damage I had suffered. She was winning a game; the opponent was me. My neighbor had to hire a lawyer to get her car insurance company to pay up. You know the story—it is what has moved Californians to pass insurance reform initiatives.

I was apprehensive, therefore, when I needed to make a claim with Safeware. My only comfort was that I would get to report to the readers of this column what happened to me. I was certainly expecting an unpleasant experience.

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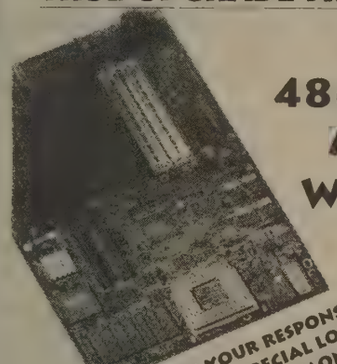

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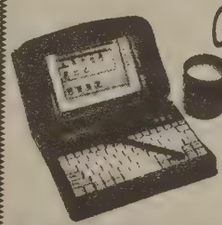

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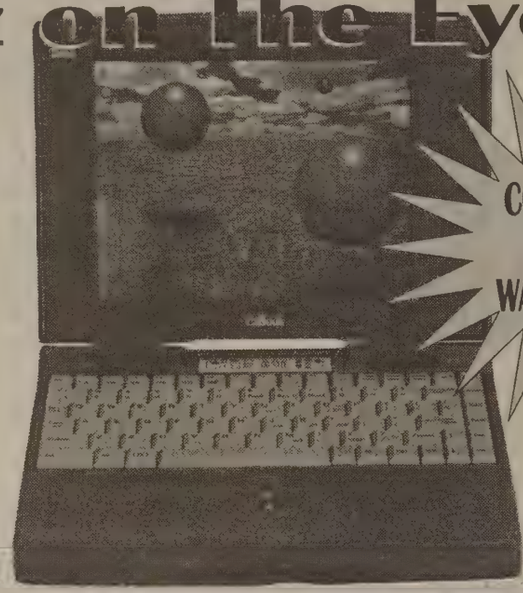

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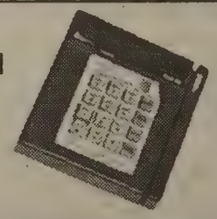

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Calling Safeware, I was surprised to find that Candy, the representative, was agreeable when I explained the roof-leak. "Yep," she said, "It's covered. Fifty dollars deductible."

I explained that I needed to get a new monitor and get back to work immediately. She seemed sympathetic. "OK," she said, "Keep the old monitor for at least ninety days. I'll get the papers to you."

After calling a couple of places and discovering the same price for a replacement monitor, I went down and bought one. I was now out on a limb. I had spent money for the new monitor on the unwritten say-so of the representative. Not a big item for a corporation, but it is a bite out of the budget of a small business.

The promised forms arrived. I was pleased to see that if the claim was for less than five hundred dollars, all I had to do was fill out a few lines and return the receipt for the monitor to Safeware. I did so. I was pleased with the directness of the interaction so far.

About two weeks later, my pleasure took a dip. I got a form asking for proof of ownership of the old monitor, several written estimates for the replacement costs, a technician's diagnosis, and a police report. "Uh, oh," I thought, "here we go," and spent a few moments in thought about the visit to the police station ("Just what did this leak look like?" asks the detective).

I wrote a one-page letter explaining that there was no police report and such, and sent it off while mumbling about the perfidy of insurance companies.

I waited. Two weeks later, the check came. Even here the pleasant surprises do not end. I compared my check with my claim, and found that Safeware had overpaid me a bit. I was curious, so I called the customer representative back. She looked up the record. "You're right," she said. "But it was our mistake. Thanks for being honest, and keep it."

My evaluation: Safeware gets an A. They can be reached at 1-800-848-3469.

What Do You Mean, Weird?

Sometime in the next few months, the SO/HO column will do a story about the most *unusual* small offices among our readership. So if you have a fascinating business or a truly interesting environment, drop me some email (*birrell@well.com*). You have to at least *use* computers. Decision of the judge is final, and notoriously arbitrary. ■

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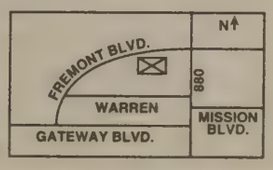

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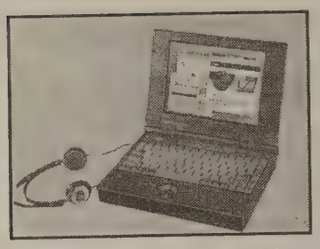

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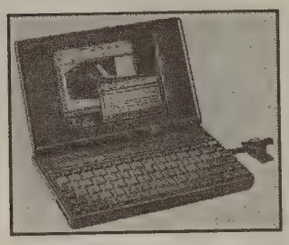

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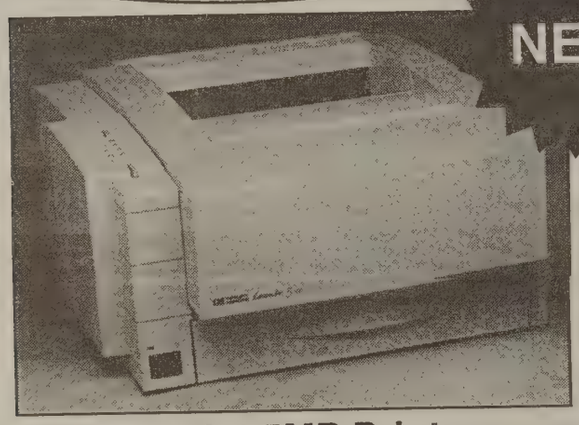

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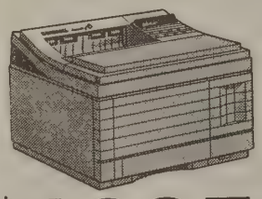

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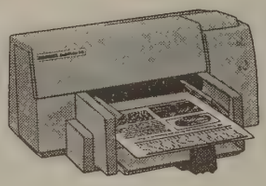

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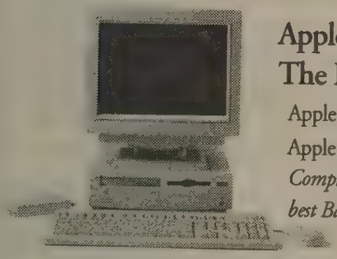

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ACCOUNTING • BY DAVID A. SIMON, CPA AND JENNIFER R. CHERNISS

Recent Trends In Tax And Accounting Software

A Look At New Products And Services

Tax and accounting software aimed at the average consumer has gone through some heavy changes lately. This article looks at new products and services, as well as the trends driving these developments.

Electronic Tax Returns

With tax season a fuzzy memory for most of us, now is a good time to look back at what was new and to see what might work better next year.

Did you file your 1994 income tax return by modem? Despite the options available, not as many taxpayers went the electronic route as one might expect.

CompuServe supports electronic filing of returns prepared with TurboTax (Intuit), MacInTax (Intuit), and Tax Cut (MECA Software). America Online supports TurboTax and Tax Cut. A return prepared with one of these packages and transmitted to the online service is converted into a format acceptable to the Internal Revenue Service.

While these vendors were promoting new "no-fuss" electronic filing, the IRS added its own voice to the invites. This is not because the government has become a tool in the back pocket of jackbooted Silicon Valley marketing forces. It actually costs the government substantially less to process an electronic return than a paper one. And the more complicated your return, the more Uncle Sam saves.

From the taxpayer's perspective, one advantage of electronic filing is that refund checks should be mailed two or three weeks sooner. This is no benefit, obviously, if you owe money or if you merely want to apply your IRS overpayment to next year's estimated tax. Another benefit is that the IRS responds to electronically filed returns with an acknowledgment (.ACK) file, so you can prove the date you filed without hassling with certified mail.

Despite these conveniences, 1994 was apparently not the year of the modem for taxpayers. Much of the reason has to do with electronically filed returns having become closely intertwined with the controversial refund anticipation loan (RAL) industry. Basically, an RAL lender grants a cash advance, usually at a relatively high interest rate, secured by an expected tax refund.

The IRS cracked down on certain RAL procedures in order to combat a wave of fraudulent electronic returns claiming refunds. As a result, many lending institutions ceased these operations. According to one preliminary estimate, electronically filed returns used for RALs fell by 30% this year.

The crackdown spilled over to other electronic filing taxpayers. Word went out that an electronic filer claiming the earned income credit is much more likely to be audited. That's because of the earned income credit's high potential for abuse—it is easy to forge documents to claim it, and the credit can be used to generate a refund even if no tax was withheld.

Once you are tagged for audit, the same electronic advantages that make processing easier let the IRS comb effortlessly through any return in question. The prospect of close electronic scrutiny apparently makes some folks nervous.

So, just because you need to file a return and you have a modem doesn't necessarily mean this is the right tool for the job.

On the other hand, no need to send your modem to the Salvation Army, either. The IRS has announced new goodies for online users. Tax forms, instructions, and IRS publications will be available online through CompuServe, America Online, and GEnie; or through the Internet (at *fedworld.gov*). Forms and information will also be directly available on the IRIS (Internal Revenue Information System) section of FedWorld, a bulletin board maintained by the government and open to the general public. FedWorld can be accessed directly by modem at (703)321-8020.

What with the long distance and online charges involved, IRIS is probably not your most economical choice, especially since you can obtain all this for free in the mail simply by calling the IRS's 800 number. But if paying for it helps you appreciate it more, Uncle Sam will send you all twenty-five thousand pages of tax matter on a CD platter for the low, low price of $69 (US Government Printing Office, phone 202/512-1800).

Tax Software

Many of you are inveterate do-it-yourselfers. A fair portion are independents or small operators who have incorporated in order to obtain work from gun-shy clients reluctant to do business with independent contractors. A frequent concern of such individuals is finding corporate tax preparation software that is easy to use but reasonably comprehensive. Until recently, most of the available consumer tax prep software limited the user to individual returns. Corporate tax software was usually designed for tax professionals.

This, too, has changed. Intuit is now on its second edition of TurboTax for Business, which, depending upon the version, prepares corporate, partnership, and S-corporation returns.

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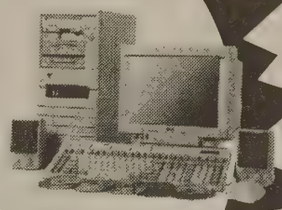

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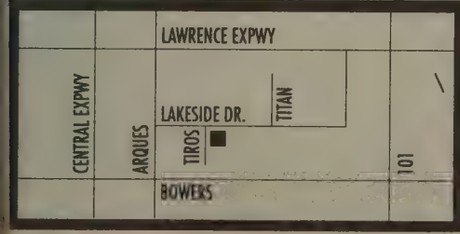

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TurboTax for Business guides the user with questions as it tabulates, weaves, and spreadsheets through the paperwork. It integrates with Quicken and QuickBooks, much the way that little TurboTax does.

Given that the current corporate downsizing trend is sprouting huge numbers of one-person corporations, expect to see more business tax software on the consumer shelves, even as fewer vendors dominate the market.

Even the simplest of corporate or partnership returns can be computationally burdensome if manually prepared, and provide abundant opportunities for clerical error. If you are preparing your own business returns, the $100 cost of TurboTax for Business, for example, is well worth the aggravation you'll save.

In figuring the cost, however, users should not lose sight of the main reason vendors offer consumer tax and accounting packages to begin with. Major players, such as Microsoft, are after the particularly lucrative financial products market—specifically online financial services. Vendors lure the home user to their camp with big-demand products for accounting and tax organizing. Support costs for these types of packages are low, and many are virtually given away in order to capture armies of consumers just a temptation away from online banking and securities transactions.

Consumer tax and accounting software is now almost synonymous with low-end. When these products are coupled with capabilities for buying financial services, there will be intense competition, increased performance, and price strategies aimed ultimately at grabbing valuable chunks of the financial products market.

Quicken has pioneered the idea of bringing electronic bank reconciliation to every checkwriter. Its proposed union with Microsoft pits the giant directly against the banking industry, as well as antitrust folks at the Justice Department. Large corporations will increasingly dominate the low-end accounting software market with underpriced packages, but not because they care deeply about your bookkeeping.

Accounting Software

Windows accounting software, even at the low end, continues to have increasing capabilities. Both Peachtree and DacEasy have long been at the forefront in this market, and are used here as examples.

Peachtree Accounting for Windows Release 3.0 consists of thirteen modules, including specialized functions such as job costing, flexible report writing, and payroll. The inventory module supports LIFO, FIFO, and average cost. Peachtree uses graphical representations of checks, invoices, and other accounting source documents to accommodate less experienced users. The program has elaborate alarms that warn the user when boundaries such as credit limits or budgeted amounts are exceeded.

An especially useful feature is the ability of Peachtree to export a wide range of information, including accounts receivable data, as a comma-delimited ASCII file. Some low-end accounting packages (for example, Timeslips) won't easily export client data in standard database formats, making it difficult to integrate customer lists with contact management, for example.

Software vendors are increasingly recognizing that small businesses rely on their accounts receivable information for mailing lists and the like. Contact management is therefore making its way into low-end accounting packages.

Indeed, the bang for your buck seems to be growing faster for low-end accounting applications than at the high end. This seems to reflect both aggressive marketing of consumer services and the unparalleled sophistication now expected for high-end application users. (For information on high-end applications, see endbar).

DacEasy Accounting for Windows with Payroll v2 demonstrates how high the low end has become, nearly to the point of squeezing out the truly beginner user. This low-end integrated package adds communication features including a phone dialer, fax integration, mail merge, call tracker, and a to-do list. The CD-ROM version comes bundled with Avery Label Pro, a working demo of DacEasy Instant Rolodex, Timeslips, and a variety of communication tools to aid in using accounting information to manage jobs and promote the business.

Unfortunately, DacEasy reflects the trend among low-end vendors to deliver more features and less service. The package is complex and apparently not as smoothly integrated as one might expect, and there is no free online support to speak of. The unsophisticated user could be easily overwhelmed. Not surprisingly, the program won't convert your data into popular database formats, making it hard to readily move to the competitor's camp.

The overall trend in consumer/small business software, whether tax or accounting, is that it's no longer as necessary to shop and trade off among features. Vendors are happy to give you all the performance you can hope for, plus capabilities you never dreamed up. The idea is to get the basic software into usage, get the users committed, then extend their appetite for higher-margin sibling products and services.

Just when life on the mulberry tree began to feel so easy, we suddenly decide we can't live without a silk hammock. ■

Complimentary reprints of the following are available from David Simon's office in Oakland at (510)893-5753.

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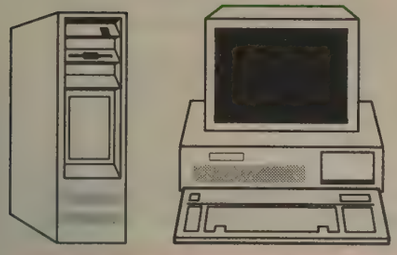

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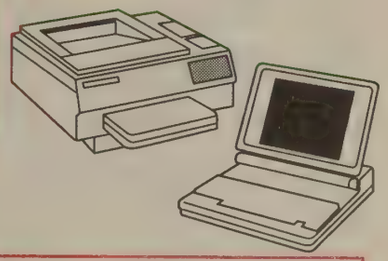

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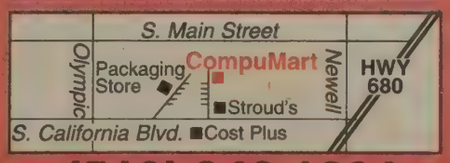

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	1-2-3 4.0 Upgrade	$97
Microsoft	Excel V5.0 for Windows	$295
	Excel V5.0 for Windows Upgrade	$119
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	Office Upgrade	$265
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	Word 6.0 Upgrade	$119
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	28.8 Fax/Modem v.34	$189/$209
US Robotics	14.4 Fax/Modem Int/Ext	$94/$124
	28.8 Fax/Modem V.34	$219/$239
Megherz	PCMCIA 28.8 Fax/Modem	$349
	PCMCIA 14.4 Fax/Modem	$179
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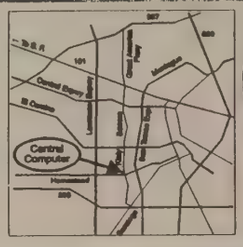

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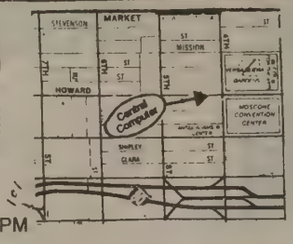

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CPU Cooling Fan
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IDE & FD Controller & I/O (2S 1P)
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Spill Resistant 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Standard Technology 14" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse

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* Others same as above

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CPU Cooling Fan
4MB RAM Memory (1 of 72-pin, 70-ns Simm)
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Built-In IDE & I/O on board
Baby Tower Case w. 200W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Oak 087 Super VGA 1MB Card
Standard Technology 14" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

MICRONICS 486-DX2-66 ISA 2VLB $1129

MICRONICS 486-DX2-66 EISA VLB $1319

AIR 486-DX2-66 ISA 3VLB $1139

** *Multimedia Upgrade Options (please add):*
Panasonic 2X + SB 16 + 40W Speakers ($219)
Sony 2X + 16 bit IDE Sound Card + 4W Speakers ($185)

Central System # 3 : 486 Value Station

Intel 486-DX2-66 CPU
CPU Cooling Fan
8MB RAM (1 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O on board
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB IDE Hard Drive
Kelvin 64 VLB 1MB VGA Card
Viewsonic 15ES or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrades*

AMI Super Voyager III 486-DX2-66 2VLB $1649

MICRONICS 486-DX2-66 2VLB $1475

** *Multimedia Upgrade Options :*
Any 2X or 4X Multimedia Kit available

Central System # 4 : Pentium IDE Station

Intel Pentium 586-90 CPU
CPU Cooling Fan
8MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Kouwell IDE & I/O (2S 1P 1G)
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 420MB Hard Drive
Kelvin 64 PCI 1MB VGA Card
Viewsonic 15ES 15" or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrade*

INTEL 586-90 PCI (Triton) $1915

SUPER P54CT Green 4PCI $1825

MICRONIC 586-90 3PCI , built-in IDE $1925

** *Multimedia Upgrade Option (please add) :*
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Central System # 5 : Pentium SCSI Station

Intel Pentium 586-90 CPU
CPU Cooling Fan
8MB RAM (2 of 72-pin, 70-ns Simm)
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Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Quantum MV-540A 540M SCSI Hard Drive
Kelvin 64 PCI 1MB VGA Card
Viewsonic 15ES 15" or Mitac M1564 15" Monitor
Microsoft Serial Mouse
*** Optional Upgrade*

MICRONIC M54PI 586-90 3PCI $2059

INTEL 586-90 PCI (Triton) $2049

SUPER P55CWA PCI (Triton) $2025

** *Multimedia Upgrade Option (please add) :*
Sanyo 4X SCSI + SB 16 SCSI + 40W Speakers ($355)

Central System #6 : Pentium CAD Station

Intel Pentium 586-90 CPU
CPU Cooling Fan
16MB RAM (2 of 72-pin, 70-ns Simm)
Teac 1.44MB Floppy
Built-in IDE & I/O
Mid Tower Case w. 230W Power
Mitsumi or Keytronic 101 Keyboard
Conner or Maxtor 1.2GB IDE Hard Drive
Diamond Stealth 64 2MB DRAM PCI Card
Mag DX15 15" 1280 x 1024 .28 NI Monitor
Microsoft Serial Mouse
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MICRONICS 586-90 3PCI $2599

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Sound Blaster Pro Value Edition 75
Sound Blaster 16 Basic / IDE (Vibra)..... 75/85
SB 16 MCD oem / reg..... 84/125
SB 16 MCD w. ASP oem / reg 118/165
SB 16 SCSI-2 / w. ASP 167/189
Sound Blaster AWE 32 VE / w. ASP 165/265
SB Multimedia Home 4X Kit w. 24 Microsoft CDs 399
Sound Blaster Multimedia Office Kit ..... *(479)
Video Blaster MP-400 / Wave Blaster 2 ... 245/165

CHINON
CDS-525 280ms, 300Kb/s, 2X SCSI Int..... 169

DIAMOND
1000 Multimedia Kit w. 30 titles 285
4000 4 Speed Multimedia Kit w. 11 titles 309
5000 4 Speed Multimedia Kit w. 30 titles..... 399

MEDIA VISION
MV1100 Deluxe Multimedia Kit 2X Int 229
MV2200 4 Speed Kit 289
Pro 16 Multimedia System II SCSI ..... *(329)

MITSUMI
FX400 230ms, 600Kb/s, IDE 4 Speed Int 189

NEC
3XP Plus Portable, Triple Speed 389
4XI 220ms, 600Kb/s, 4 Speed Int 379
4XE 220ms, 600Kb/s, 4 Speed Ext 479

PIONEER
4 Speed, 150ms, 614Kb/s, IDE Int 195

PLEXTOR
PX-43CH 220ms, 600Kb/s, 4 Speed Int 389
PX-63CS 145ms, 900Kb/s, 6 Speed Int 535

SANYO (Concord)
CDR-H93 66ms, 600Kb/s, 4X SCSI-2 215

SONY
CDU-55E Double Speed IDE 119
- w. IDE Sound Card & Speakers 185
CDU-55S Double Speed SCSI 189
4 Speed SCSI w. Adaptec 1515 299

TEAC
CD55A 195ms, 4X IDE, Int 179
CF506A Quad CD + 1.44 FD 209

TOSHIBA
3601B 150ms, 600Kb/s, 4 Speed Int 295

TURTLE BEACH
Monte Carlo Game Card 95
Monterey Multisound 329
Tropez Sound Card 225

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Adaptec Audio Edge 199
Adventure Multimedia 4X Upgrade Kit 335
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Family Library Multimedia 4X Upgrade Kit 329
Gravis Ultrasound ..... *(119)
Gravis Max 32 Voice / w. Doom II 175/189
JVC CD Writer (w. Adaptec, cable, software)
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- 4 Speed Ext 4165
Panasonic CR-562 / w. SB16 & speakers ... 125/199
SIIG Play Computer Games On TV 149
Wav Jammer 16 bit Stereo PCMCIA 275

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Altec ACS53 / ACS300.1 ..... 129/225
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Baby Tower w. 200W Power 59
Mid Tower w. 230W Power 75
Mid Tower w. Side Door Open, 230W Power..... 79
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ADAPTEC
1515 16 bit Controller w. Kit 89
1522A Fast SCSI Board, 3Mb/s / w. Kit 85/145
1542CF SCSI Board, 10Mb/s / w. Kit 175/239
2742AT SCSI EISA w. Kit 365
2842AK SCSI VLB w. Kit 239
2940 SCSI PCI w. Kit oem / reg 239/289
2940W Wide-SCSI PCI Kit w. wide int cable 299
APA1460 Slim PCMCIA SCSI 229
ASW-EZ SCSI 3.1 for Dos & Windows 69
T348K Parallel to SCSI Adapter 129
T358K EPP Parallel to SCSI Adapter 179

BUSLOGIC
KT410A IDE Cache VLB 125
KT445C SCSI VLB w. Kit 199
KT542B SCSI-2 w. Kit 209
KT757C Fast SCSI-2 & Wide-SCSI, EISA Kit 379
KT910A IDE Cache PCI w. Kit 179
KT946C SCSI PCI w. Kit (supports 8GB HD) 269

COREL
Corel SCSI Software v2.0 85

DTC
2278VL IDE w. I/O VLB, 32 bit 35

FUTURE DOMAIN (SCSI)
TMC-1660 for AT (HD only) 119
TMC-1660 SVP (SCSI Value Pack) 127
TMC-1680 for AT (4FD & HD) / SVP 129/139
TMC-3260 PCI / SVP 129/165

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IDE w. AT I/O (2S 1P 1G) & 16550 & 2.88 49
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Enhanced IDE/ 4HD/ FD/ 2S 1P/ VLB 35
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Enhanced IDE PCI 33

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PCMCIA Bustoaster SCSI-2 219

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DC-5030 IDE PCI 129
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VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB 55

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4. CPU & MATH CO

CPU :

AMD
386 DX-40 59
486-DX2-66 / DX2-80 149/149
486-DX4-100 189

CYRIX
486 DX-33 119

INTEL
386 DX-33 / DX-40 45/45
486 DX-33 129
486 DX2-50 / DX2-66 149/159
486 DX4-100 239
Pentium 586-60 / 66 249/299
Pentium 586-75 / 90 339/389
Pentium 586-100 509

Math Co Processor :

CYRIX
83D87 - 33 35

INTEL
387 DX (for 16/ 20/ 25/ 33 MHz) 85
387 SX (for 16/ 20/ 25/ 33 MHz) 79

ULSI
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Cooling Fan for Pentium 586 15

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UD-0608R 6 x 8, w. UP-201 Pressure Stylus 345
UD-1212RP 12 x 12, w. UP-201 Pres. Stylus 529
UP-201 Pressure Stylus 49.95

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Dual - 1.2MB & 1.44MB 89

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CFS-425A 420MB 14ms IDE 1" ht 155
CFS-540A 540MB 14ms 32k IDE 1" ht 185
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CFS-1275A 1.2GB 15ms 64k IDE 1" ht 339
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M2684SAU 540MB 12ms SCSI 1" ht 215
M1606SAU 1GB 9ms 512k SCSI 509

MAXTOR
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MXT-7425AV 420MB 12ms 32k IDE 159
MXT-7540AV 540MB 14ms 64k IDE 185
MXT-7850A 850MB 12ms 32k IDE 229
MXT-71260A 1.2GB 12ms 256k IDE 349

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LT-540S 540MB 11ms 128k SCSI-2 215
MV-540A 540MB 14ms 128k IDE 185
MV-540S 540MB 14ms 128k SCSI 199
LT-730A 730MB 11ms 128k IDE 235
LT-730S 730MB 11ms 128k SCSI 269
FB-1080S 1GB 12ms 128k SCSI-3 479
TR-840S 840MB 14ms 128k SCSI 289
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ST3491A 420MB 14ms 128k IDE 165
ST-3660A 540MB 14ms 128k IDE 1"ht 179
ST-31220A 1.08GB 12ms 256k IDE 339
ST-31230N 1.05GB 9ms 512k SCSI-2 559
ST-32430N 2.14GB 9ms 512k Fast SCSI 925
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ST-12550W 2.14GB Fast-wide SCSI 1225
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ST-15230N 4.3GB 9ms 512k SCSI 1895
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105MB 3.5" w. cart, SCSI for Mac, Ext. 389
200MB 3.5" w. cart, SCSI Ext 479
270MB 3.5" w. cartridge, IDE w. Kit, Int 435
270MB 3.5" w. cartridge, SCSI, Ext. 479
270MB 3.5" w. cart, printer port for PC, Ext. 479
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Syquest 270MB 3.5" w. cart, SCSI Ext 539

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Printer Card 15
Serial Card (XT, AT) 15

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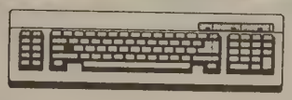
SIIG (5 yr. warranty)
(2S 1P) w. 16550 chips 45

STB 4-COM
4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15) 109

VITEX
AT I/O (2S 2P) w. 16550 chips 45

8. KEYBOARD



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FK2001 101 Click 42
FK9000 129 Key Programmable 53

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Maxi 101 / Maxi 124 35/53
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SIPP
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28.8 Fax Modem v.34 Int / Ext *(165/199)

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GVC (Maxtech)
14.4 Fax Int / Ext 64/89
14.4 Fax Modem Voice Int 69
PCMCIA 9624 Fax 99

HAYES
Accura 144 + Fax Int / Ext *(99/119)
Accura 28.8/14.4 v.34 Modem Ext 229
ESP Communication : Single / Dual port 85/125
Optima 288 v.34 Fax Int / Ext 369/429

MEGAHERTZ
PCMCIA XJ1144 Fax (MNP5) 185
PCMCIA XJ2144 Fax (MNP10) 219
PCMCIA CC3288 Fax / XJ2288 Fax 345/429

MICROCOM
Deskporte 28.8S V.34 Fax Ext 189
Deskporte EP 28.8 v. Fast Ext / v.34 Ext 225/239

PRACTICAL PERIPHERALS
PM144FX144 Int / Mini Tower Ext 89/119
28.8 v.34 Fax Int, 230K DTE 269
28.8 v.34 Ext (PC288LCD) 359
28.8 v.34 Int (PM288) / Mini Tower 209/225

PURE DATA
Satisfaxion 200 24/96 Fax Modem 235
Satisfaxion 400 144/144 Fax Int 299
Satisfaxion 400e 144/96 Fax Ext 335

SHIVA
Net modem/E Ethernet BNC/TP 1475

US ROBOTICS
Courier v.34 28.8/14.4 Fax Int / Ext 395/425
Sportster 144/144 Fax MNP5 Int / Ext 99/119
Sportster 144/144 for Mac Ext 149
Sportster v.34 28.8/14.4 Fax Int / Ext 225/235
Sportster v.34 28.8/14.4 Fax for MAC 259
Sportster PCMCIA Fax 144 / 288 185/365

ZOOM (7 yr. warranty)
144/144 Fax Modem & Voice Int / Ext 115/169
28.8 V.Fast 14.4 Fax Int / Ext 139/189
28.8 V.34 14.4 Fax Int / Ext 185/199

ZY-XEL
U1496B 16.8 Voice 14.4 Fax w. Software Int 289
U1496B+ upgradable to 19.2Kbps Int 397
U1496E 16.8 Voice 14.4 Fax, LED Ext 299
U1496E+ upgradable to 19.2Kbps Ext 399

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CommShare 550 Phone & Fax auto-switch 75
CommShare 750 4 Port Switching 99
Intel Plus/OCR 2.0 *(45)
National Semiconductor TyIN 2000 Int *(75)
SIIG TeleCommunicator 10-in-1 Fax 219
14.4 Fax modem Int 59

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M1566L 1280 x 1024 .28 NI 335

HITACHI
CM1586MU 15" Flat 1280 x 1024 .28 NI 369
CM1786 17" 1280 x 1024 .28 NI 679
CM2096 20" 1600 x 1200 .31 1265

KFC
CT1428A 14" 1024 x 768 .28 NI 249
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MF-8617A 17" 1280 x 1024 .26 NI 769
MF-8621 21" 1600 x 1200 .26 2235
MT-9121 21" 1600 x 1200 .30 1895

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MXP17F 17" Flat 1600 x 1280 .26 NI 915

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F550iW 17" 1280 x 1024 .28 NI *(849)979
F2.17 17" 1280 x 1024 .28 NI 875
F2.17EX 17" 1600 x 1200 .26 NI 959
T2.17 17" 1280 x 1024 .25 NI 1285
T2.17TS 17" 1280 x 1024 .25, Diamondtron 1029
T2.20 20" 1600 x 1280 .30 NI 1955
F780iW 21" 1600 x 1280 .26 NI 2995

NEC
XV14 14" 1024 x 768 .28 335
4FGe 15" Flat 1024 x 768 .28 NI *(599)
XE15 15" 1024 x 768 .28 549
XP15 15" 1024 x 768 .28 NI 599
XV15 15" 1024 x 768 .28 439
XE17 17" 1024 x 768 .28 NI 985
XP17 17" 1280 x 1024 .28 NI 1089
XV17 17" 1024 x 768 .28 NI 789
6FGp 21" 1280 x 1024 NI (re-furbished) 1699
XE21 21" 1280 x 1024 .28 NI 1819
XP21 21" 1600 x 1200 .28 NI 2199

NOKIA
449E 15" 1280 x 1024 .28 NI *(425)499
447L 17" 1024 x 768 .28 NI 749
447X-058 17" 1600 x 1280 .25 NI 1049
447X 17" 1600 x 1280 .25 NI TCO 1175
445X 21" 1600 x 1280 .26 TCO 2485

OPTIQUEST
1000S 14" 1024 x 768 .28 NI 249
1500D 14" 1280 x 1024 .28 NI 349
2000DC 15" 1280 x 1024 .27 NI 399
4000TC 17" 1280 x 1024 .25 Trinitron NI 799

PANASONIC
C1791E 17" 1280 x 1024 .28 NI *(689)749

PRESIDENT
GV-4148S 1024 x 768 .28 NI 225

PROTON
PM1561A 15" 1280 x 1024 w. speakers built-in 345

SONY
1425 14" 1024 x 768 .25 325
15SF 15" 1280 x 1024 .25 NI 489
17SE 17" 1600 x 1280 .25 NI w. After Dark..... 989
17SF 17" 1280 x 1024 .25 869
20SE 20" 1280 x 1024 .30 NI 1885

STANDARD TECHNOLOGIES
428-VESA 14" 1280 x 1024 .28 NI 249

TATUNG
20" Analog 1280 x 1024 .31 755

VIEWMAGIC
10" SVGA Mono Paper White 1024 x 768 129

VIEWSONIC
6E 14" 1024 x 768 .28 NI 275
15G 15" Flat 1280 x 1024 .28 NI 419
15GA 15" 1280 x 1024 .28 NI, built-in speakers .. 509
15ES 15" 1024 x 768 .28 NI, MacII 365
17 17" 1600 x 1280 .27 NI, MacII 849
17GA 17" 1280 x 1024 .27 NI, plug & play 839
17GS 17" 1280 x 1024 .27 NI 789
20PS 20" 1600 x 1280 .28 NI, MacII 1449
21PS 21" 1600 x 1280 .26 NI, MacII 1669

12. MOTHERBOARD

AIR (w/o cpu)
486MI : 486-DX2-66 256k, 3VLB, built-in AT I/O.. 179
486EI : 486-33 / DX2-66 256k, EISA, 3VLB 349

AMI (w/o cpu)
Atlas 586-90MHz PCI 256k w. IDE I/O 399
Super Voyager III 486-DX2-66 VLB, 7 slots 329
Titan II 586-90 256k EISA, dual processor 985

ASUS (w/o cpu)
486-DX2-66 256k VLB 139
486-DX2-66 256k PCI, built-in IDE+SCSI I/O 269
P54TP4 586-90 256k PCI (Triton) 319
586-90 / 100 256k PCI EISA, dual processor 669

IBM (Opal)
486SLC-66 VLB 64k w. CPU & Math Proc 165

INTEL (w/o cpu)
586-90MHz 256k PCI, built-in IDE I/O 319
586-100Mhz 256k PCI, built-in IDE I/O 329
Pentium ZP ED w. Triton Chipset 329

LYNX (USA made, w/o cpu)
486-33 / DX2-66 256k VLB Green PC 135
486-DX4-100 256k PCI/ VLB 159

MICRONICS (w/o cpu)
BCP 386-33 64k, 4MB max 79
486-33 / DX2-66 256k VLB 179
JX3WB 486-DX2-66 256k VLB w. write-back cache 249
486-33 / DX2-66 256k EISA VLB 365
486-33 / DX2-66 256k EISA-3 285
M54PI 586-90 w. IDE I/O (Neptune) 345

SHUTTLE (w/o cpu)
486-DX2-66 256k 3VLB slots, Green PC 135
486-DX2-66 256k EISA 3VLB slots 239

SUPER (w/o cpu)
P54CT 586-90 / 100 256k PCI VLB 259
P54Ci 586-90 / 100 256k PCI, built-in IDE 259
P55CWA 586-90 / 100 256k PCI (Triton) 329

TIGER V
586-90MHz 256k PCI 229

13. MOUSE & JOYSTICK

AGILER
AGM-800E Serial 400 dpi 12.50
ATB-610 Serial Trackball 21.50
Master Plus 400 ..... 16.50

ANCER (black)
3-button 19

KENSINGTON
Expert Bus 4.0 115
Expert Serial & Trackball 4.0 95
Thinking Mouse (serial & PS/2) 79

LOGITECH
Cordless II 85
First Serial 31
Fotoman Plus Camera for PC & PS/2 549
Mouseman Bus / PG15 Bus oem 64/45
Mouseman Serial 45
Serial Combo PC & PS/2 oem 32
Trackman II / Trackman Portable 75/49
Wingman Standard / Extreme 29.95/47

MICROSOFT
Bus 2.0 400dpi w. Bus Card oem / reg..... 65/79
Home Serial 1.0 ..... 39.95
PS/2 2.0 (round connector) oem / reg 35/59
Serial 2.0 400dpi oem : gray 29

MOUSE SYSTEMS
Altes Mouse 9.95
Cobra (joystick) 9.95
Mouse! Serial w. Pad 19
PC Mouse III (3-button optical) 49.50
PC Trackball II 43
ProAgio (5-button serial) 45
Serial Bus Card (9IRQs) 29

JOYSTICK :

THRUSTMASTER
ACM Gamecard 29.95
F-16 FLCS 135
Flight Control System MK II 69
-w. Falcon / w. US Navy Fighters 79/89
Flight Control System Pro 119
Formula T1 / w. Indy Car 125/139
Rudder Control 118
Weapon Control MKII 109
UPROM 29.95
XL Action 35

OTHERS
Analog Plus (by Sun Comm) ..... *(19.99)
Gravis Analog Pro 29
Gravis PC Gamepad 19.95
Quickshot Smart Game Card 16.50
Color Mickey Mouse Pad 5.99
Star Trek Mouse Pad / Star Wars Pad..... 7.99/7.99
Walt Disney Mouse Pad 4.99

14. NETWORK

3COM
3C503 Etherlink II 16 bit coax / TP 165/175
3C509B Etherlink III coax oem / reg 89/118
- 5 Pack oem / reg 445/529
3C509B Etherlink III TPO (RJ45 only) oem 75
- 5 Pack oem / reg 365/449
3C509B Etherlink III TP+AUI oem / reg..... 85/115
- 5 Pack oem / reg 395/499
3C509B Etherlink III Combo oem / reg 99/129
- 5 Pack oem / reg ..... *(465)/559
3C579 Etherlink III EISA coax / TP 228/229
3C589 PCMCIA TP / Combo 169/215
3C590 PCI TPO / Combo ..... *(135/165)
3C590 PCI TPO 5-Pack ..... *(539)
3C595-TX PCI 10/100 TP 234
3C16170 Link Builder (12TP) 345
Transcend Link Builder FMS Management 350

ADDTRON
HUB: UTP8/L (8TP +BNC + AUI) 139
HUB: UTP16/L (16TP + BNC + AUI) 265
Pocket Adapter BNC..... *(99)115
Transceivers: AUI-BNC / AUI-TP 37/37

ALLIED TELESIS (CentreCOM)
Transceivers: MX10 (AUI - BNC) 35
Transceivers: 210T (AUI - TP)..... 35

ARTISOFT (Lantastic)
Articom ..... *(99)
Central Station Netware / Central Station II .. 349/399
Corstream Server 5-user (8340) ..... *(499)
HUB: 8 Port (8TP + BNC) 189
HUB: 12 Port (12TP + BNC)..... 225
Lantastic Z (2 stations) 89
Lantastic 6.0 Starter Kit coax 2-user ..... *(235)
Lantastic 6.0 Add On NR-SI 2000C 115
Lantastic 6.0 Add On NR-SI 2000T 125
Lantastic 6.0 Software single user 79
- 6.0 for 5-user / 10-user 339/599
- upgrade for single / for 5-user 39/99
Lantastic for OS/2..... 99
Lantastic for TCP/IP single / 5-user 199/785
NR-SI 2000C coax / 5 pk / 10 pk 79/375/685
NR-SI 2000T TP / 5 pk / 10 pk 84/379/689
NR-SI 2000A Combo 99

ASANTE (for Mac & PC)
10T HUB 8 Port (8TP + 1BNC) ..... *(155)
10T HUB 12 Port (12TP + 1BNC + 1AUI)..... *(315)
FriendlyNet with BNC / TP Adapter..... 59/55

BOCA
HUB : 8 Port TP only / 16 Port TP only..... 139/269
LAN Card : ISA TP / ISA Combo 59/69
LAN Card : VLB TP 75
PCI 32 bit Ethernet Combo 89
PCMCIA 10BT Ethernet 169

CASTELLE
JetPress MIO TP (network printer server) 389
JetPress XIO coax + TP 429
LANPress (print server connects up to 4 printers)
- Ethernet Thick/Thin coax (1P 3S) 475
- Ethernet 10BaseT (1P 3S) 475
- Ethernet BNC & 10BaseT (2S 2P) 435

CNet (Advanced Network)
200E+ coax / 600E+ TP 39/35
650E+ Jumperless Combo 45
3270 Emulation for PC / for PS/2 ..... 175/195
4020ERP 2 Port Repeater coax 199
5250 Emulation for PC / for PS/2 ..... 199/235
8000TPC HUB: 12 Port Stackable 299
8800TPC HUB: (8TP + BNC) ..... *(99)135
8816TPC HUB: (16TP + BNC) ..... *(225)255
8900TPC 12 Port SMNP Slave HUB 465
8910TPC 12 Port SMNP Master HUB 775
Personal Netware 2-user coax / TP 115/115
Personal Netware single-user Combo 65

COGENT
EM100 PCI Fast-TX, 32 bit bus mastering 229
EM400 PCI Quartet Fast (4UTP) 1095
EM525 Ethernet 16 Combo ..... *(75)
EM595TP Ethernet PCMCIA UTP 199
EM932 EISA 32 bit coax / TP 238/239
EM960 32 PCI Full Duplex TP / Combo..... 135/159
EM964TP 32 PCI 4-Port Full Duplex TP 495

DANPEX
ArcNet & Token Ring products ..... call
1616i SNMP Intelligent 16port Hub..... 635
1616M SNMP Manageable 16port Hub..... 395
6200P2 PCMCIA BNC+TP..... 115
7000P3 32bit VLB Combo 79
9400P3 32bit PCI Combo..... 85
ET-510 UTP to AUI Translator..... 107
ET-590 UTP to BNC Translator 109
PrintMate PM-NW (for Netware)..... 269
PrintMate PM-TCP (for SUN, UNIX) 279

HP (Hewlett Packard)
Advanced Stack 12 Port HUB 599
- with SMNP 895
Advanced Stack 24 Port HUB 999
- with SMNP 1329
Jet Direct J2550A TP 315
Jet Direct J2552A Combo..... 375

IBM
Ether 16 coax / TP / Combo 69/69/79

INTEL
EtherExpress 32 Flash EISA Combo 229
EtherExpress PRO/100 PILA 8465 PCI TP ..... *(195)
EtherExpress Pro 8/16 bit cards :
- PCLA 8200 BNC + AUI + TP 129
- PCLA 8200 5 pack 559
- PCLA 8210 BNC + TP oem / reg 88/115
- PCLA 8210 5 pack 499
- PCLA 8220 TP oem / reg ..... 74/*(99)
- PCLA 8220 5 pack 469
- PCLA 8205 Flash BNC+AUI+TP..... 139
- PCLA 8205 5 pack 599
- PCLA 8215 Flash BNC + TP / 5 pk 125/549
- PCLA 8225 Flash TP / 5 pk 119/499
LAN Project 1.5 (virus protection) 685
LAN Sight Support 4.0 345
LAN Spool s/w 386 NLM v3.5A 425
MCLA 8120 MCA TP 175
Netport II Thin & Thick..... 395
Netport II 10BT 399
Netport Express XL 465
NetSatisfaxtion 3.01 for Novell 25-user 755

LANPRO
2000RC16 bit BNC / 2000JT 16 bit TP 39/35
2000RAL 16 bit Combo..... 45
EP3020A Pocket Combo 115
HUB : 8 Port (8TP + BNC) 139
HUB : 16 Port (17TP + BNC + AUI) 255
Personal Netware coax Starter Kit 139

MICRODYNE
Eagle NE3210 EISA 32 bit Combo 189
NE2000+ coax / 5 pack ..... *(79/349)
NE2000+ TP / 5 pack ..... *(75/329)
NE2000+ Combo / 5 pack ..... 89/*(389)
NE3200 EISA coax / TP 450/450
Synchronous .35 WAN Adapter 869

NATIONAL SEMICONDUCTOR
InfoMover NE2000+ coax / 5 pack ..... *(75)/339
InfoMover NE2000+ TP / 5 pack ..... *(69)/299
InfoMover NE2000+ Combo / 5 pack .... *(89)/415
InfoMover NE4100 PCMCIA coax / TP 175/179

NETWORTH
100 Base TX 8 Port HUB 1375

NOVELL
Dos 7 (w. Personal Netware) oem / reg 45/55
Lan Workplace 5.0 single / 10-user 295/1295
Netware 3.12
- 5 / 10 / 25-user oem 525/1155/1825
- 5 / 10 / 25-user reg..... *(595/1375/2095)
Netware 4.1
- 5 / 10 / 25-user oem 560/1195/1895
- 5 / 10 / 25-user reg 695/1495/2195
- 50 / 100 / 250-user 3195/4395/7495
Netware Connect 2 Ports / 8 / 32 ... 415/1445/3895
Netware NFS v1.2C 3150
NFS Client for Lan Workplace 205
Personal Netware oem / reg 39/75
Unixware Personal Edition v2.01 - CD version ... 319
Unixware SDK v2.0 - CD version 105

PALINDROME
Network Archivist NLM 3.1A ..... *(795)

SMC
8013 Plus Elite 16 coax / 6 pack 118/625
8013 Plus Elite 16 TP / 6 pack ..... *(99)/599
8013 Plus Elite 16 Combo / 6 pack 139/775
Elite Ultra 16 coax / 6-Pack 109/449
Elite Ultra 16 TP / 6-Pack 108/399
Elite Ultra 16 Combo / 6-Pack 119/499
Elite Ultra 32 EISA Combo 215
Ether EZ coax / TP ..... 115/*(99)
Ether EZ Combo oem / reg 89/119
Etherpower PCI : TP / Combo 175/189
Etherpower PCI 10/100 219
Netware Boot ROM for Ethernet v1.3..... 29.50
Tiger HUB: 3206TA 6 Port 185
Tiger HUB: 3212TC (12TP + BNC + AUI) 369

XIRCOM
PCMCIA CE2-10BT TP ..... *(169)
PCMCIA CE2-10BC Combo ..... *(219)
PE3-10B2 Pocket Adapter coax ..... *(255)
PE3-10BT Pocket Adapter TP ..... *(259)
PE-3 10BC Pocket Adapter Combo ..... *(269)

CABLES & ACCESSORIES ..... ***call***

15. NOTEBOOK

TOSHIBA
T1960CS 486-DX2-50, 4MB RAM, 200MB HD, 1.44BM FD, Dual Scan Color 1999
T1960CT 486-DX2-50, 4MB RAM, 200MB HD, 1.44MB FD, Active Color 2099
T1960CT 486-DX2-50, 4MB RAM, 320MB HD, 1.44MB FD, Active Color 2259
T3600CT 486-DX2-50 8MB RAM, 500MB HD, 1.44MB FD, Acitve Color 3399
T4700CT 486-DX2-50, 8MB RAM, 200MB HD, 1.44MB FD, Active Color 2999
T4700CT 486-DX2-50, 8MB RAM, 320MB HD, 1.44MB FD, Active Color 3159

OTHERS
9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), 128k, VLB, removable HD, built-in speaker & microphone :
- 486-DX2-66, 340MB (DSTN) 1815
- 486-DX2-66, 340MB (TFT) 2399
- 486-DX4-100, 340MB (DSTN) 1935
- 486-DX4-100, 340MB (TFT) 2565

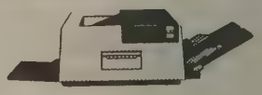
16. POWER SUPPLY

AMERICAN POWER CONVERSION
APC-400 Smart-UPS (286, 386 WS) 289
APC-600 Smart-UPS (386, 486 FS) 359
APC-900 Smart-UPS (386, 486, FS & WS) 515
APC-1250 Smart-UPS (multiple FS & WS) 639
APC-2000-2 Smart-UPS 1150
APC-280 Back-UPS (200W) 108
APC-400 Back-UPS (300W) 159
APC-450 Back-UPS (325W)..... 199
APC-600 Back-UPS (425W) 269
APC-900 Back-UPS (650W) 375
Back-UPS Pro APC-280 155
Back-UPS Pro APC-420 225
Back-UPS Pro APC-650 295
PowerChute Plus :
- for Novell 65
- for OS/2, Lan Server, 3 Com 75
- for Unix / Xenix 99
- for Windows NT 69

PC POWER COOLING
Silencer Slim 205 99
Standard 230
- for Desktop / Full Tower..... 85/85
Silencer 270
- for Slim (baby or mid tower) 135
- for Full Tower 159
Turbo Cool 300
- for Slim (baby or mid tower) 139
- for Desktop / Full Tower..... 169/165
Turbo Cool 450
- for Full Tower 295
Twinpower 900 (redundant) 925

TRIPP LITE
Isobar / Isotel ..... call

17. PRINTER / PLOTTER



BROTHER
HL-630 Laser 6ppm 445
HL-641 6ppm, 1MB RAM 499
HL-645 509
HL655M for PC & MAC, 2MB RAM 659

CANON
BJ-200EX Ink Jet 239
BJC-600E Ink Jet, Color, Par. 780dpi 479
BJC-4000 Ink Jet, Color, 360dpi 359

CITIZEN
GSX-220 24 pin 179
GSX-230 Fonts & Quiet 219
GSX-240 Scalable Fonts & Quiet 285
GSX-345 24 pin, 132 column 365
Projet II Ink Jet 269

DEC (Digital Equipment)
DecLaser 5100 w. 6MB 1125
DecWriter 500i / color upgrade 285/46

EPSON
Stylus Color Inkjet 720dpi ..... *(525)

HP (Hewlett Packard w. toner)
Color Laser Jet 5495
Desk Jet 540 289
Desk Jet 660C ..... *(499)
Desk Jet 1200C PC, Mac 999
Desk Jet 1200C Postscript PC, Mac 1595
Laser Jet 4+ / 4M+ 1399/1899
Laser Jet 4L / 4ML ..... *(509)/985
Laser Jet 5P / 5MP ..... *(929)/1385
Laser Jet 4Si / 4SiMX 2875/3995
Laser Jet 4V / 4MV 1895/2695
Office Jet (printer-fax-copier) 3-in-1 759
Accessories :
- Color Kit for 540 49
- Duplex C2061A for 4Si or 4SiMX 495

- Envelope Power Feeder 75 Sheet (HP4) 279
- Legal, Letter or A4 250 Sheet Tray (HP4) 99
- Legal, Letter or A4 500 Sheet Tray (HP4) 109
- Lower Cassette w. Letter Tray (IIP, IIIP) 149
- Optional 500 Sheet legal Letter A4 (HP4) 279
- Postscript for LJ4 329
- Postscript C2013A for 4Si ..... [illegible]
- Toner for II, III 84
- Toner for IIP, IIP+, IIIP 76
- Toner for 4 / 4L or 4P 109/69
- Toner for 4Si / 4V 135/149

LASER MASTER
Winjet 1200 (postscript for HP4) ..... *(549)
Winjet 1200+ (postscript for HP4+) ..... *(599)

MICROTEK
TrueLaser MTP-306 35 fonts, 6ppm, 2MB ..... *(745)

OKIDATA
ML184T 9 pin, Par 229
ML320 9 pin, Epson compatible 325
ML380 24 pin, Epson compatible 235
ML590 24-wire 429
OL400E Laser ..... *(425)
OL410E Laser 4ppm, 600ppi ..... *(539)
OL410E/PS Laser Postscript ..... *(799)

PACIFIC DATA
ProTracer II Ink Jet (CAD Plotter) 969
ProTracer II-GL2 w. HP-GL2 & 2MB 1339
Accessories :
- HP-GAL Emulation Card 375
- Ink Cartridges 19.50
- Postscript Emulation Card 375
- Sheet Feeder I / II 135/115

PANASONIC
1150 9 pin, 55dBA 139
2023 24 pin, Quiet ..... (after rebate, 165)185
2123 24 pin, 43.5dBA, Color capability 239
2130 Quiet Dot Matrix ..... (after rebate, 169)199
2135 Quiet Dot, Color ..... (after rebate, 205)255
3123 24 pin, Quiet, Scalable Fonts 259
3124 24 pin, Scalable Fonts, LCD 329
3624 24 pin, Quiet, 46.5dBA 399
J250 Ink Jet, 300dpi, 128 nozzle printhead ..... *(259)
4430 Laser 5ppm, 1MB 665
4400 Led Page ..... (after rebate, 399)449
4440 Laser 10ppm 995
4455 Postscript 11ppm 1695
5400 Led Postscript 4ppm ..... (after rebate, 499)599
SP-100 Multi-function printer 769
Accessories for 4410, 4420, 4430. 4400 4440, 4450 4450I, 4455, 5400 ..... call

SEIKO
Smart Label Printer Plus / Pro 145/245
- Standard Label (2 rolls) 7.95

SUMMAGRAPHICS (Plotter)
DMP-60 / DMP-61 A to D Size 1275/1275
DMP-161 A to D size 1599
DMP-162 A to E size pen 1899
Hiplot 7100 A to D w. stand 1999
Hiplot 7200 A to E w. stand 2355

18. SCANNER

HP (flatbed)
ScanJet IIIC Color & Gray Scale w. Kit 955
- Auto Document Feeder 475
- Transparency 635
ScanJet IIIP Gray Scale w. Kit 509

INFO
SF3GS Gray Scale 300 dpi w. OCR ..... *(199)
SF12C Color 24 bit 1200 dpi w. OCR 349
- w. Auto Document Feeder (SF6CD) 539

LOGITECH (hand)
Scanman Easy Touch w. OCR 169
Scanman 256 / w. Omni Page OCR 135/155
Scanman Color w. Omni Page OCR ..... *(195)
Scanman Power Page 399

MICROTEK (flatbed color)
Scan Maker II w. Photoshop L.E. 549
Scan Maker IIHR 600 dpi w. Photoshop & OCR 1050
Scan Maker IIHR 600 dpi w. Picture Publisher 825
Scan Maker IISPX 300 x 600 dpi 875
Scan Maker III 2495

19. TAPE BACKUP

COLORADO
DJ-20 250MB QIC-80 ..... *(129)
- AB-11 External Tape Port 35
- Cable (2FD & tape backup) 6
- DC2120 Pre-Formatted 12.99
- FC-20 Controller 69
- TC-15 Controller w. compression 155
- KE-09 External Kit w/o Controller 59
- Unix / Xenix Driver 99

DJ-35C Jumbo 350 340MB Int 145
DJ-25C Jumbo 700 680MB Int 235
DJ-50C Jumbo 1400 1.3GB Int 299
PT-10 PowerTape 1GB SCSI Int 599
PT-25 PowerTape 2GB 300Kb/s Int 965
PTE-25 PowerTape 2GB Ext SCSI 1095
Tracker 250MB / 350MB (printer port) 259/279
- upgrade fr 250MB to 350MB 39.95
Tracker 680MB (printer port) 359

CONNER
CNR-250MQPT 250MB Ext 315
CNR-4320RT 2GB Int 745
CNR-4350XT 2GB Ext 985
Tape Stor w.cartridge Int 420MB / 850MB 159/249
Tape Stor 850MB w. cart. Ext (printer port) 379

EXABYTE
EXB-2501 1 - 2GB SCSI-2 Int / Ext ..... 485/*(619)
FS1G (2501 + Control Kit) Int / Ext ..... 675/*(799)
EXB-4200 4mm Dat. 2GB Int / Ext 799/975
EXB-8205XL 8mm Dat. 3.5 - 7GB Int 1345
EXB-8205XL 8mm Dat. 3.5 - 7GB Ext 1595
EXB-8505XL 8mm Dat. 7 - 14GB Int 2035
EXB-8505XL 8mm Dat. 7 - 14GB Ext 2285

HEWLETT PACKARD
35470 4mm Dat. 2-4GB SCSI Int 765
35480 4mm Dat. 4-8GB SCSI Int 875
C1533 4mm Dat. 8-16GB SCSI Int 1039
HP Mounting Frame to 5.25" 27

OTHERS
Mountain Summit SE250 Int 135
Sytos Plus Backup s/w for Dos / Win 99/95

20. VGA CARD

ATI
Graphics Expression 2MB PCI / VLB 219/219
Graphics Ultra Plus 2 DRAM w. mouse 199
Graphics Ultra Pro 2 ISA w. mouse 265
Graphics Ultra Pro 2 VRAM VLB 265
Graphics Ultra Pro 2 EISA / PCI 315/269
Graphics Pro Turbo 2MB PCI / VLB 329/329
Graphics Pro Turbo 4MB PCI / VLB 499/499
Win Turbo 64 2MB PCI / VLB 289/289

DIAMOND
Stealth 32 2MB PCI 175
Stealth 64 2MB DRAM PCI / VLB 199/199
Stealth Video 64 2MB VRAM PCI / VLB 289/289
- 2MB upgrade 180
Stealth Video 64 4MB VRAM PCI / VLB 469/469
Viper Pro VRAM 2MB PCI / VLB 379/379

MATROX
IMP Plus 1600 x 1200, 2MB PCI 389
- 2MB upgrade 225
IMP Plus 220 2MB PCI 469

MEDIA VISION
ProGraphics 1024 VL 256 Color 1MB ..... *(159)

MIRO
Video 20TD Live VLB / PCI 465/465

NUMBER NINE
FX Motion 330 DRAM 2MB PCI 199
FX Motion 771 VRAM PCI 2MB / 4MB 299/449
GXe Level 12 VRAM 3MB VLB 329
GXe-64 Pro VRAM 4MB VLB 489
Imagine 128 4MB PCI 849
Imagine 128 1600 4MB PCI 1129

ORCHID
Fahrenheit 64 1MB PCI / VLB 159/159
Kelvin 64 Windows Accel. 1MB PCI / ISA 139/139
Kelvin 64 Windows Accelerator 1MB VLB 139
Kelvin 64 Windows Accel. 2MB PCI / VLB 189/189

SPIDER
Tarantula 2MB VRAM VLB / PCI 265/265
Tarantula 4MB VRAM VLB / PCI 375/375

OTHERS
Intel Smart Video Recorder Pro 439
Movie Plus 1100 MPEG Decoder 199
Oak087 Super VGA 1MB 69
Paradise Window Accel 24 bit VGA 109
S3 Vision 864 64 bit 2MB PCI 179
Sigma Design Real Magic Lite MPEG 249
V-Mate Pro (video encorder : PC to TV) 189
Vitex MCP Card (monographic) 23

SOFTWARE

1. CD SOFTWARE

$3.99 (Special)
- No. 11 Downing Street - Laser Tax

$5.99 Each
- CD Maximizer - Clip Media 2.0
- Introduction PC & Dos
- JCSM Shareware Collection
- PC Globe Pak - Selectware
- Shareware Supreme - Windows Shareware Gold

$6.99 Each
- 20th Century People - 20th Century Sports
- Battle Tech 2 - Best of 20th Century
- Capital Hill - California Collection
- CD Game Pak - CD Power Box 2.0
- CD Selector - CD Windows Box 1.01
- Laser Squad - Monster Media '93
- Multi. Environment - Windows Expert MPC

$7.99 Each
- Audubon's Birds - Audubon's Mammals
- CHAOS Continum - Dr. Music
- Dr. Game - F-14 Tom Cat
- Kid's Rhyme - Magic Dean
- Mixed Up Mother Goose
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- Godzilla vs. Megaton - Ham Radio
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- HIV Resource AIDs Guide
- Hugo House of Horrors
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Pro Phone: Select Phone '95 WIN, MAC 145
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Using Mailing Lists

When You Need To Talk To Alot Of People At Once

Mailing lists are one way a lot of Matrix users keep up with each other on a shared topic. Notice we say "the Matrix" and not "the Internet." Using a mailing list only requires access to electronic mail, something a lot of users outside the Internet have. Mailing lists are a pretty simple extension to traditional electronic mail.

Mailing lists are an effective means of online group communication. However, using them properly is important. Abusing a mailing list, whether intentionally or through ignorance, diminishes its value. In this article we will explain briefly how mailing lists work and some pointers on how to use them properly.

How Mailing Lists Work

The owner of a mailing list gives the list a name, relative to a computer in the Matrix. Let's call our hypothetical list *bar@foo.com*. The mail software within the domain *foo.com* understands that any messages sent to the above mail address will get resent to every member of the list.

By analogy, you can think of posting a message to the list as sending an office memo to an assistant and asking the assistant to copy the memo to all the people in the department. The assistant gets the department directory and sends a copy of the memo to everyone in the department. In a mailing list all the work of copying the original message and distributing it is handled automatically by the mailing software.

The owner of the list maintains the list membership, just as the office assistant would. There is software which can handle this automatically or the list owner can do it manually. Once subscribers are on the list, no more manual assistance is normally needed. Software automatically distributes mail sent to the list.

When you receive a message from a mailing list, the message looks like any other electronic mail message. Here is what the mail message might look like:

From: jill@aol.com
To: bar@foo.com
Reply-to: bar@foo.com
Subject: new to this list
Hi, I'm new to this list and I'd like to ask a few questions...

Notice that Jill sent the message to the address of the mailing list, not to the address of the list owner, and especially not to each specific address of each list participant. She also supplied the To: and Subject: headers. She may have supplied the From: header, or more likely her mail program supplied it for her.

She might have put in a Reply-To: header, but this one was probably added by the list management software. This header indicates where replies to the message should be sent. Some mail software understands the Reply-to headers and uses the address found there when you compose a reply. This header is not always present, and some people make the mistake of only replying to the sender of the message. If you want to send a private message to Jill, replying just to her is appropriate. But if you want all the members of the list to see the reply, then be sure and send the reply to *bar@foo.com*, and preferably *only* to *bar@foo.com*. You don't want to also send to Jill, since she is very likely a member of the list. Replying to *jill@aol.com* and *bar@foo.com* will result in Jill getting two copies of your reply. Why is this the case? Because each address in your reply is processed separately.

Using the office memo analogy again, it is just as if you got a memo from Jill and wrote a reply memo and made two copies of it. The first reply you send directly to Jill. The other copy

> ***The main idea*** on a mailing list is to keep replies short and to the point, with only as much identified context as a reader needs to follow the conversation thread.

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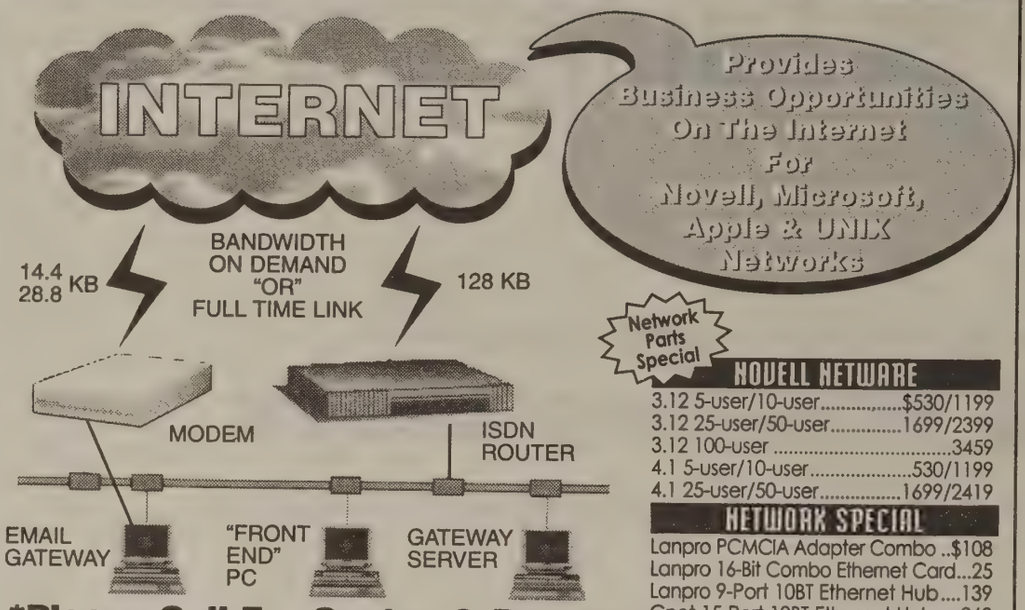

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you send to your assistant. The assistant makes copies of the message and sends it to all members of the list including Jill. Meanwhile the copy sent directly to Jill arrives independently of the copy of the message sent to the list. The same general process happens when a message is sent to the electronic list, but much faster.

A good rule to follow when you get a message from a mailing list is to send all replies (except private ones) to the list address. You may have to fiddle with your mail software to get it to do the right thing, or you may have to manually address the message to the right place.

Another point to remember is that a reply to a message is another independent message. As far as the mail system is concerned, it is not connected to the original message in any way. It is treated the same way as a fresh message to the list.

The list management software doesn't care how messages sent to the list are related, but human subscribers to the list do care. Always include a Subject: header, and keep the same Subject: header (with Re: added) when replying to a message, unless you're actually changing the subject. Always include context from the original message in the body of your reply; any list member may have read hundreds of other messages from other people, in other lists, and on other subjects, between the previous message and your reply. It's only polite to help the members remember. You should also add a tag line telling who wrote the original context. Here is an example:

From: smoot@tic.com
To: bar@foo.com
Subject: Re: new to the list
>jill@aol.com said:
>Hi,
>I'm new to this list and I'd like to ask a few
>questions...
Sure. We'd be happy to help...

The right angle braces (>) mark the quoted part of the message. This is the common electronic mail convention. Please use it. Some people new to mail instead indent the *new* part of their message. Please don't; it's confusing and hard to read.

When you add the context, keep it as short as possible. Some mail programs have the bad habit of attaching the original message (including headers) to any reply. This is not a good thing, since it only takes a few reply iterations for a message to become full of usually useless information. The main idea on a mailing list is

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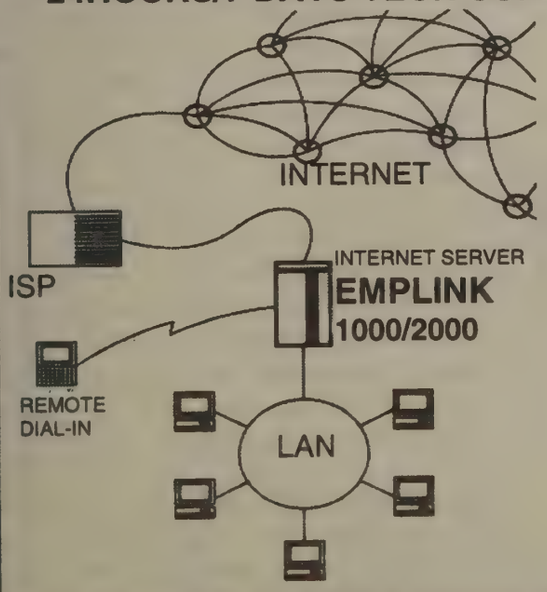

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to keep replies short and to the point, with only as much identified context as a reader needs to follow the conversation thread.

Some lists have thousands of members. Remember your reply is going to all the members of the list. Short, succinct messages are appreciated. Also, try to stick to the topic area of the list. When conversations wander off on unrelated threads, members of the list can get very annoyed. If it gets bad enough the owner of the list may start moderating messages sent to the list or remove abusive members.

Another list no-no is to send subscribe and unsubscribe requests to the list itself. Some special addresses have been set up to send these administrative messages to. In our example list, all administrative messages should be sent to *bar-request@foo.com* . The addressing convention is simply to follow the name of the list (before the @) with the string "request." This will work for all properly configured lists. Usually, using this mail address sends a message to the owner of the list. For example, a typical unsubscribe request to a list would be:

To: bar-request@foo.com
From: smoot@tic.com
Subject: unsubscribe me
unsubscribe bar

Majordomo

Many lists operate under control of the Majordomo list management system. A list under Majordomo control uses a little different administrative message strategy. Instead of sending a message to the list owner, you send a message to Majordomo in the domain the list is maintained. For our example list, the following would be a simple subscribe request:

To: majordomo@foo.com
From: smoot@tic.com
subscribe bar

Note that there is no Subject: line. Majordomo doesn't look at it. The subscribe message is in the body of the message. Majordomo handles administrative requests automatically. Its use is becoming more widespread, since it saves time for the list maintainer. Recent versions of Majordomo also support the -request convention. ■

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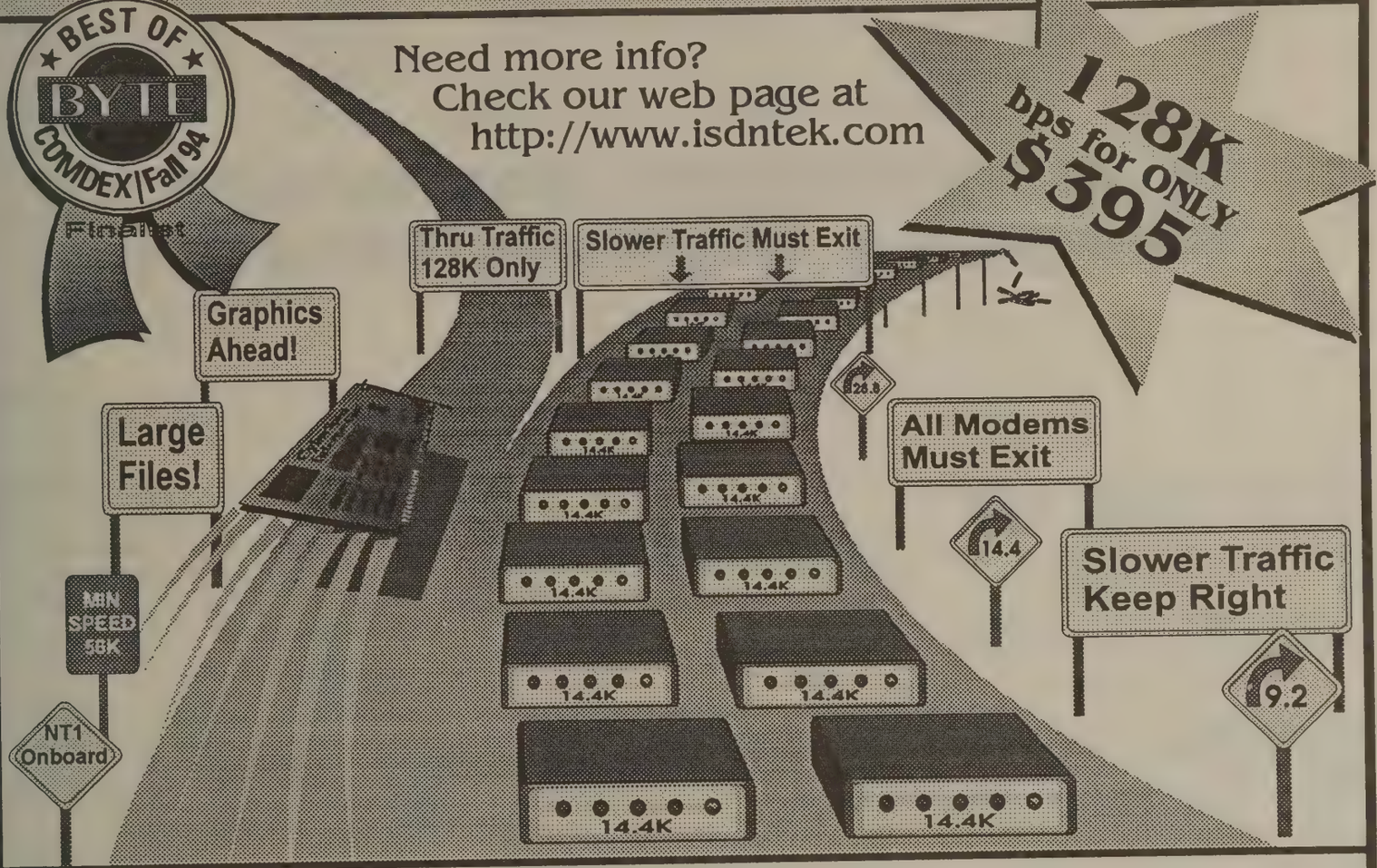

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ONLINE SERVICES • BY BILL GRAM-REEFER

AOL Debuts Browser, Targets Generation X

Easy Access To The Net

"Go big or stay home" seems to be America Online's motto these days as it makes final preparations for the introduction of several new, key services. AOL should release its eagerly awaited World Wide Web browser by the time you read this.

Web Browser

Available first for subscribers using Windows, with a Macintosh version due later in the summer, AOL's Web browser will open up the floodgates, providing access to Internet-based Web pages to millions of AOL users primed to surf the Net. The Web capability caps an entire suite of Internet-based services available to AOL subscribers including Usenet newsgroups, anonymous file transfer, and gopher and WAIS searches, in addition to other search services like Archie and Veronica.

In a strategic design move, AOL hit upon the concept to make the Internet look like a subset of its own online service by integrating icons for Web-based pages or locations into AOL itself. Furthermore, AOL places these icons within certain topical categories native to its own product to help bring a much-needed measure of organization and usability to the unorganized jumble that cyberspace actually is.

This isn't just a Web connection, but an easier way to use it. For instance, an icon for ESPN's Web page exists alongside other sports topic icons that actually reside on AOL. Click on the ESPN icon and you're off to the corresponding Web page that exists somewhere else on the Internet.

These pointers are also used for other major content-rich providers like CBS and various well-known marketers. This integration not only makes the Web feel like a part of AOL, but it allows users to chat and read mail while simultaneously surfing Web sites. To further add ease of use to the Net, users can create a menu of their favorite places, allowing them to jump directly to any desired area from any message board within AOL.

According to beta-users, the new browser works well, and feels fast even at 9600 baud. Some drawbacks include a smaller display than other browsers like Mosaic and Netscape; and the topical integration isn't expected to make it to the Macintosh version. Early testers also noticed that Web sites using tags or commands peculiar to Netscape's implementation of the Hypertext Markup Language (HTML) looked, well, not good. But those compatibility issues involving different flavors of HTML should be ironed out prior to final release.

TurboWeb

To address the problem of low-speed access by most users with 9600–14400 baud modems, AOL's browser includes an exclusive technology called TurboWeb that displays pictures and graphics up to three times faster than other browsers. As images are rendered in stages, users can begin to view graphics as soon as the transmission begins. Each page is saved to increase the speed with which users can access images on subsequent visits during the same session.

Additionally, AOL continues to deploy its previously announced AOLNet, the company's private network that provides 28.8Kbps access at no additional charge. AOLNet now provides over sixty-six points of presence across the country in addition to SprintNet and Tymnet connections in over six hundred cities in the US.

To further add ease of use to the Net, users **can create a menu** of their favorite places, **allowing them to jump** directly to any desired area **from any message** board within AOL.

The Hub

Later this summer, AOL and New Line Television, a division of Turner Broadcasting, will unleash The Hub, a new online service with attitude targeted at twelve- to twenty-four-year-olds. The concept is to give Generation Xers, known to be big-time online service users to begin with, their first dose of a digital mall where you can hang, see, and be seen.

The Hub, the first online service targeted at a specific demographic group, plans to marry online interaction with broadcast-style programming that will feature regularly scheduled events, cool interaction opportunities, themed special events, on-air promotions, and contests.

Don't expect too much online live video at the outset or anytime soon. But AOL and New Line promise plenty of action. In fact, most content on The Hub will be designed around eliciting subscriber interaction via auditorium events, message boards, and chat rooms. The Hub hopes to foster some sense of online community for young adults by providing places to interact with peers as well as participate in the creation of new content. Sections will

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71 ☐ X Windows
72 ☐ Remote Communications
73 ☐ RMON Software
74 ☐ Other _____

5. On an annual basis, how much do you anticipate your organization will spend on TCP/IP products?

75 ☐ Over $5 million
76 ☐ $1,000,001 to $5,000,000
77 ☐ $500,001 to $1,000,000
78 ☐ $100,001 to $500,000
79 ☐ $50,001 to $100,000
80 ☐ Less than $50,000

6. Number of employees in your organization. (All locations)

81 ☐ Less than 100
82 ☐ 100 - 499
83 ☐ 500 - 999
84 ☐ 1,000 - 4999
85 ☐ 5,000 - 9,999
86 ☐ 10,000 or more

7. Your role in buying decision:

87 ☐ Final decision maker
88 ☐ Specify
89 ☐ Recommend
90 ☐ No role

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include topics on entertainment, food, travel, new products, and where to find cool stuff. Special features will include international classifieds, chat rooms with leading syndicated writers on topics ranging from sports to self-help (I doubt we're talking "Ask Beth"), and Comic Time, an area dedicated to comic books, writers, and artists.

The commercial side of this will include messages from marketers in the form of live, on-air promotions and entertainment blocks that could be sponsored in addition to regularly scheduled features. The Hub's founders believe it can provide an ideal place for advanced marketers to develop a digital relationship with two million consumers who know how to spend money. For the pleasure of that company, users will pay a fixed monthly fee of $9.95 for access to The Hub and all of the other services of AOL for up to five hours each month.

In contrast to CompuServe's WorldsAway offering discussed here a few months ago (see *MicroTimes* issue #136), AOL will stake the success of The Hub on peer-to-peer spontaneity that needs no avatar. Where CompuServe figures to gain users with whiz-bang graphical virtual space and the ability to manipulate objects, AOL will target Generation X and try to provide a sense of place with MTV excitement. So, fess up. Some of you have probably already mumbled under your breath, "Good, get the kids a Jungle Land so they won't bother us 'adults' on AOL." We'll see.

Bright Future For AOL, Microsoft Or No Microsoft

Meanwhile, AOL continues to be the virtual money machine, racking up 734,000 new subscribers in first quarter '95 compared to its previous best of 421,000 in the last quarter of '94. What kind of green does that translate into? In May AOL reported first quarter 1995 revenues increased 236% to $106,414,000 from $31,689,000 in fiscal 1994's third quarter. Excluding special costs, including losses on new subsidiaries and ventures like 2Market Inc., an online shopping venture, AOL quadrupled net earnings to $5.1 million in '94's third quarter compared to $1.272 million in the same quarter a year earlier. AOL estimates over 2,500,000 subscribers.

But then there's Microsoft's Network ready to launch later this year. What then? Duck and cover? Don't bet on it. Despite Microsoft's ability to stuff subscribers into its new online service thanks to its being distributed with Windows 95, the market realities of price, unique features, exclusive content, and ease of use will still guide the fortunes of the commercial online service marketplace for some time. Add Microsoft to the big three—CompuServe, Prodigy, and AOL, plus Delphi (now owned by Rupert Murdoch's News Corp, now aligned with MCI) and Apple's eWorld—and there will be plenty of choices for consumers to access quality product and Internet services. For consumers, this will only drive down prices. Furthermore, online communities do not happen overnight, so it is not a reach to believe existing customers will easily continue to exhibit behavior approximating brand loyalty.

For a giant like Microsoft to get into the online game can only help AOL and other services because it will legitimize the entire marketplace. By providing easy and actually helpful access to the Internet and targeting strategic audiences, AOL is well positioned to take advantage of the tens of millions of new consumers Microsoft will bring to the table. ■

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BY CYNTHIA DYER-BENNET

MU-SPIN

NASA-Funded Program Gets Minority Colleges Online

In 1951, the Georgia state legislature passed a budget that barred public schools and colleges from receiving state funds if any Negro students were allowed into the all-white schools. The National Guard quelled a riot resulting from an attempt by a black family to move into an all-white section of Cicero, Illinois. The California Senate voted to retain a law banning racially mixed marriages, despite a 1948 State Supreme Court ruling declaring the measure unconstitutional.

And Cynthia Harvey, fresh out of college, became the first African American employed in a professional capacity at the David Taylor Model Basin Supersonic Wind Tunnel research and test facility. She almost didn't get the job. She was accepted sight unseen based on her college grades and skills in math. But when Navy officials met her, they tried to back out of the agreement. Fortunately, says Harvey, a man in the personnel department in charge of okaying the request for this position did the right thing. "He threatened to reject the request if I wasn't accepted," she recalls.

Harvey's link to the military ended in 1965, when she joined the faculty at Morgan State University in Maryland. But it was renewed in 1993, when she became technical coordinator of a program called MU-SPIN, the Minority University-Space Interdisciplinary Network.

What Is MU-SPIN?

MU-SPIN is a NASA-backed program designed to bring Internet connectivity to minority colleges and universities. NASA relies on the Internet as its primary means of informing universities and colleges about the projects and grants it has in the works. Though NASA sends the same information through the mail, schools lacking Internet connectivity are last in line to receive it. Many of the four hundred minority universities and colleges in the United States cannot afford higher-end computer technology and training, so these institutions and their students miss opportunities to interact with the scientific community.

In 1989, Dr. Yvonne Freeman, minority university program director at NASA headquarters, asked Valerie Thomas of NASA's Goddard Space Flight Center to help design the MU-SPIN project. "I was very interested in working on that project because I appreciate the need to have minority schools involved in wide area networking," says Thomas. "I could see that, if the minority universities were behind prior to the advent of the electronic network, then they would be even further behind if they were not also connected to the network. In addition, if they became active participants in electronic networking, then there could be a 'leveling of the playing ground' for the smaller and less endowed colleges and universities such as the minority universities."

Valerie Thomas of NASA's Goddard Space Flight Center:

"If minority colleges and universities became active participants in electronic networking, then there could be a 'leveling of the playing ground' for the smaller and less endowed colleges and universities."

A coordination team spent the next eighteen months defining the MU-SPIN mission. Three phases of the program were determined. The first phase: Get the minority universities hooked up to the Net. The second phase: Establish a training program for the universities' technical support teams so that they could become self-sufficient. The third phase: Help MU-SPIN institutions be more effective in competing for NASA-funded research programs in science and technology.

The first meeting between NASA administrators and minority-college personnel was held in January of 1991. The federally funded National Science Foundation was invited aboard. Since then, the NSF has been a sponsor of MU-SPIN's annual conferences and a key player in helping MU-SPIN members financially. "Their job is to be sure that research is done in critical areas to the government," says Harvey, "and to be sure that funding is going in the right direction. Many of the things that we need for MU-SPIN are funded by the NSF."

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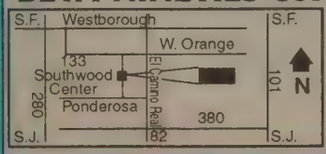

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MU-SPIN's first major gathering of members was held in September of 1991. Since then, there have been three more annual conferences, each one larger than the last. The 1993 conference boasted guests from thirty-eight universities, twenty-one private sector organizations, and five NASA centers and governmental agencies. The '94 conference had approximately 120 attendees representing seventy-five universities and forty-three private industry organizations. According to MU-SPIN Project Manager Jerome Bennett, a turnout of 450 people is expected at the 1995 conference.

How MU-SPIN Works

There are four basic parts of the MU-SPIN program. The beginning stage is designed to help minority universities install LANs on their campuses. MU-SPIN can't offer financial help for schools in need of hardware, according to Harvey, "but there are grants from the NSF which will help them buy computers," she says. "We'll tell the schools what they need and how to do it in the least expensive manner. The NSF will pay to connect their network to the outside once a LAN is set up."

The next step towards Internet connectivity is making sure the schools have the software necessary to use the Net. As Harvey points out, many of these minority universities cannot afford to purchase expensive software. There is an abundance of freeware on the Net, but without connectivity, the schools cannot retrieve it.

So MU-SPIN staff designed a network starter kit that is regularly kept up to date. It includes networking software, step-by-step procedures on designing and setting up a LAN, and an Internet connectivity guide.

"What we do at MU-SPIN is try to make getting involved as inexpensive as possible," says Harvey. MU-SPIN staffers download freeware from the Net and test it for bugs. If necessary, they write documentation. This freeware is then put on floppies and distributed to MU-SPIN universities along with documentation and instructions. "We make sure that the universities have standardized telnet, ftp, and email software," she explains. MU-SPIN permits the schools to make duplicates of the disks for distribution to all the computer labs around their campuses.

One of the many schools to benefit from this starter kit is Fisk University in Nashville, Tennessee. Fisk has been sending representatives to MU-SPIN conferences since 1991 and used one of the earliest versions of the starter kit to set up a LAN in 1992. Dr. John M. Springer, professor of physics at Fisk, says that the motivational help MU-SPIN provides has been as useful as the software and manuals. "Perhaps the most important part that MU-SPIN has played in campus networking has been to lead the way and help energize those of us who were interested in the possibilities that an Internet connection would present... We are very proud of our Web home page [*http://www.fisk.edu*]. It was one of the first to be found at a minority university or college, and continues to evolve."

In conjunction with the starter kit, MU-SPIN offers hands-on training for administrators, faculty, and staff in establishing and maintaining networks. Training workshops present instruction on network configuration and management, software development information, and how-to lessons on maneuvering through cyberspace.

Workshops, consisting of four three-hour sessions, have been held at MU-SPIN headquarters in Greenbelt, Maryland, and at universities and colleges all over the United States. One of the sessions provides an overview of network protocols and takes an in-depth look at installing and managing TCP/IP-based networks and services.

Cynthia Harvey, Pioneer

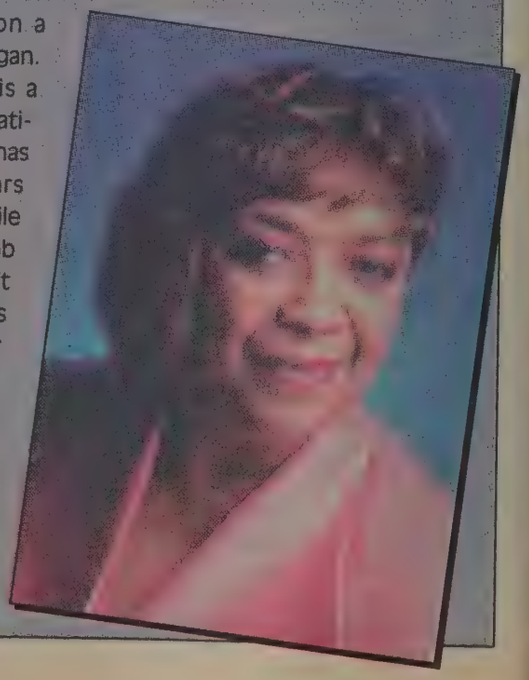
Harvey has been involved with computers for over forty years. Her introduction to them came with her first job. "When I worked at the Navy department, we found a research paper on how to build a computer, so we built one on our lunch breaks and in the evenings. I was the first one to use it. That was back in 1952," she said.

In 1955, she went to work for Westinghouse Electric Corporation as an engineer in the digital computer lab, where she wrote computer simulations for various branches of the military. "They had one of the first commercial computer systems available. The first machine I programmed on was the IBM 650," she said with some amusement. "We programmed in machine language. What we were really doing was coding everything in binary."

She joined the faculty at Morgan in 1965 as a professor of mathematics. She developed a computer science curriculum, established a computer center there in 1972, and by 1981 had all the academic buildings wired for access to a computer network. "When I started at Morgan, nobody but the chair of the math department had heard of computers," she said. "I spent about eighteen years struggling to convince the department that computers belonged there."

Convince them she did. Morgan was one of the first universities to request MU-SPIN's services. "We were working with MU-SPIN on getting some networks installed there back in 1992. I suggested they give some workshops on installation procedures, and they agreed. They had some really excellent lectures, workshops, and demos," she said, adding, "I did all the legwork in setting up the space, the equipment, and the notification, but they provided the expertise."

It was through her 1992 work with MU-SPIN at Morgan that she caught the eye of the MU-SPIN team. She joined MU-SPIN as the technical coordinator on September 9, 1993, on a two-year loan from Morgan. Though the position is a full-time job, this indefatigable sixty-six-year-old has spent the last two years working at MU-SPIN while continuing to do her job at Morgan. "I just couldn't see leaving all the things I've been working on for these past thirty years at Morgan, so I put in a lot of extra hours to do both jobs," she says—adding that if she had an opportunity to serve again, "I'd take a sabbatical."



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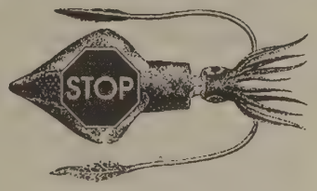

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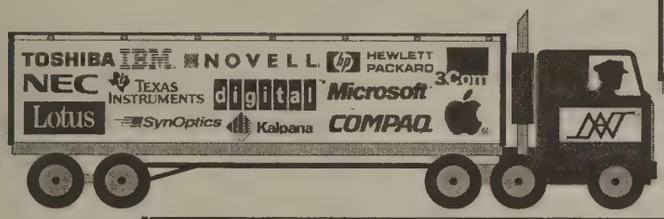

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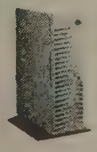

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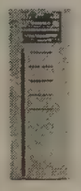

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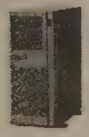

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Another session is on planning, designing, and installing an Ethernet-based LAN, with hands-on demonstrations on both Mac and PC.

The resource training sessions give participants an overview of the Internet. They are introduced to research tools like online library catalogs, scientific data systems, and public domain software archives. They also get a demonstration on using ftp and telnet, and training on installation and use of Web browsers. These Internet resource training sessions are the most popular portion of the workshops, according to Harvey: "We've got to have two sessions of that because so many people come to it we can't fit them all in the room at the same time."

MU-SPIN's Future

One of the difficulties faced by MU-SPIN training staff is the Sisyphean nature of the task, according to Harvey. She has three technicians under her supervision. It is up to her and her staff to handle all the training sessions for all the minority universities that request it. But because computer technology changes so rapidly, it is impossible to visit each of the 114 MU-SPIN campuses before the information given to the first university on the circuit becomes out of date.

The 1994 MU-SPIN conference addressed the problem of keeping the network of minority universities current, technologically. The thrust of the conference was to discuss the concept of regional training centers. These centers would function as centralized locations for training sessions that could be attended by representatives from multiple universities in the surrounding area.

The locations for these centers are currently being considered. "The requests for proposals from the universities went out about a month ago," said Harvey, "and the responses from the schools should be in in the next few weeks. The schools that host will get some funding from NASA to help with this. Their job would include notifying all the other schools about the workshop. Our team should be there at the regional center to teach others how to assist other schools."

MU-SPIN Project Manager Bennett spoke enthusiastically about this project, saying: "The biggest thing we're doing to date is these regional training centers; this is a program that's going places." An annual budget of $3 million for six sites has been assigned. Each site will receive up to $500,000 per year for up to five years, according to Bennett. "This money will be used to support building network infrastructure for the lead institution and the other institutions in the area. The school

continued on page 321

RESOURCES:

MU-SPIN's online resource center can be reached via gopher at: *muspin.gsfc.nasa.gov* . Its Web page address is: *http://muspin.gsfc.nasa.gov* .

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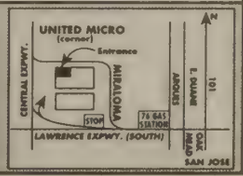

BY KEVIN M. SAVETZ

14.4Kbps On Your URL Dial...

Radio On The Internet

As I write this, my computer blares a song by Sunfish, a Canadian band that I've never heard of before. I downloaded the tune from Virtual Radio (*http://www.microserve.net/vradio*), an online warehouse of, well, bands I've never heard of. The song, titled "Difference," is available in its entirety. It's about 2MB and took several minutes to download, but was definitely worth the wait. It's got a beat and you can dance to it.

Yes sir, there's music on the Net. Another Web site offers news and commentary from National Public Radio's *Morning Edition* show. Yet another houses an impressive collection of music from California garage bands. Sure, graphics on the Web are nifty, but as the Internet and multimedia become increasingly intertwined, our other senses yearn for titillation. So, why not audio on the Internet?

Sound on the Internet is in its infancy—standards are still being hashed out, and there are no "killer apps" for audio (yet). But as the Internet takes its slow course towards being the source for five hundred channels of multimedia superhighway mayhem, the ability to transmit sound is becoming essential. Today's experiments with audio on the Net—despite the emerging press releases and corporate propaganda, don't believe that these are anything more than experiments—are a great first step. They provide interesting content, and work on most any computer that can play audio. However, the technology still has hurdles to overcome—most notably, the sound quality of most of these services is low volume, scratchy, and low fidelity.

Still, it's fun to be on the cutting edge, listening to songs from bands I didn't know existed.

Internet Talk Radio

Internet Talk Radio was one of the first well-known experiments in "broadcasting" on the Internet. Actually, ITR doesn't do broadcasting—or even "multicasting" (which is covered below)—they publish audio files that you can download and then listen to on your computer. A typical hour-long radio show consumes a whopping 20MB of disk space. (*http://town.hall.org*)

Some Net users have criticized the concept as a grandiose waste of network bandwidth, given the fact that the same information in text format could fit into only a few kilobytes. "The reason you get audio information from a $3000 (or $30,000) computer," ITR producer Carl Malamud said, "is because ultimately this gives you a very new medium. We're not trying to replace radio, just as the trucks didn't replace the railroads and the telephone didn't replace the telegraph. There are things we can do that you can't do on a radio, like go interactive or add WAIS databases to support a program, or make an audio-on-demand server."

Internet Talk Radio began in 1993, and although it was innovative, production of new shows has slowed as Malamud turns his attention to other projects, such as the upcoming Internet World's Fair.

RealAudio

Fast forward to 1995, when a company called Progressive Networks created a program called the RealAudio Player, software which deals with the biggest shortcoming of Internet Talk Radio: those huge time-sucking, hard-disk-eating audio files. Instead of making you download a complete audio file prior to listening, RealAudio uses audio streaming—it plays the sound as it downloads. Its "audio on demand" technology reduces the wait to hear a program to just a few

> If you thought self-publishing on the Web was popular, wait until everyone with a Net connection and microphone can have their own radio show, without so much as a nod from the FCC.

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seconds. Because RealAudio uses strong audio compression, you can listen to audio with only a 14.4Kbps modem. (*http://www.realaudio.com*)

The RealAudio Player is free, and works from within your Web browser—click on a RealAudio file, and the Player launches and begins to play. Progressive Networks is lining up traditional broadcasters, including National Public Radio and ABC, to provide material for RealAudio. Net notables including former MTV veejay Adam Curry, Radio Canada, and C-SPAN are publishing information with RealAudio, with certainly more to be announced in coming weeks.

The RealAudio player presents the listener with a set of stop, play, rewind, and fast-forward buttons. Unlike "real" radio, you can stop the music if you need to step away from your desk, and pick up where you left off when you return. Even better, radio shows can be indexed, allowing you to jump straight to the material that interests you. For instance, if you want to hear Radio Canada's news story on why huge chunks of ice are breaking off Antarctica, you can go directly there, skipping over the program's introduction, and never hearing the feature about how sex may control the cockroach population.

RealAudio's sound quality isn't wonderful—it's something akin to AM radio—but speech is certainly understandable. Unfortunately, whether you're connected to the Internet with a 14.4Kbps modem or a T-1 line, RealAudio sounds the same. It's too bad higher bandwidth doesn't bring better quality sound.

RICHARD DEAN, PRODUCER OF NEW MEDIA SERVICES AT NATIONAL PUBLIC RADIO, NOTES THAT AUDIO-ON-DEMAND HAS ITS BENEFITS AND DRAWBACKS. "AS A LISTENER IT'S A GREAT THING. AS A RADIO PROGRAMMER MAYBE ITS NOT SUCH A GREAT THING."

Richard Dean, producer of new media services at National Public Radio, is excited about the benefits of publishing audio on the Internet. He notes that audio-on-demand has its benefits and drawbacks. "As a listener it's a great thing. As a radio programmer maybe it's not such a great thing—it disturbs the continuity of the program," he says. "Instead of pushing info at someone—that's what radio broadcasters do—you allow them to come get it from you.

"The biggest problem with radio is that your work is really ephemeral, it hits the ether and it's gone. No one can hear it again, unless they go buy the tape or the transcript." Because a transcript can't capture the nuances of a news story, and audio tapes take several days or weeks to arrive, the Internet gives NPR listeners the ability to hear—or hear again—a story at any time, when it's convenient. "This is where radio broadcasting—information providing—is going," Dean says.

vat Radio

For some of us, just listening to the radio isn't good enough—we want to be the DJ, spinning discs for all the Internet to hear. In fact, folks are

continued on page 322

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For more specific information on the TCP/IP Tutorials, contact: Alan Clegg, American Research Group, via e-mail: questions@arg.com or call (919) 380-0097, ext. 237.

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1. Name _____ Street _____
Title _____ City/Town _____
Organization _____ State _____ Zip Code _____
Phone _____ FAX _____

2.Primary end product or service of your firm at this location. (Check one)

1 ☐ Manufacturing: computers/DP/ peripheral equipment
2 ☐ Computer and DP services
3 ☐ Other manufacturing and processing
4 ☐ Government
5 ☐ Educational
6 ☐ Financial/Insurance services
7 ☐ Distribution: wholesale/retail
8 ☐ Medical and legal services
9 ☐ Transportation services
10 ☐ Communications
11 ☐ Utilities (Electric, gas and sanitary services)
12 ☐ Construction, mining, agriculture
13 ☐ Research and development
14 ☐ Engineering/architecture
15 ☐ Other business services
16 ☐ Other (please specify) _____

3. Networks/Protocols installed or planned for purchase: (Check all that apply)

LAN Media
17 ☐ 10Base-T
18 ☐ Arcnet
19 ☐ Ethernet
20 ☐ Ethertalk
21 ☐ FDDI
22 ☐ Token Ring
23 ☐ Fast Ethernet

WAN Protocols
24 ☐ Frame Relay
25 ☐ SMDS
26 ☐ ATM
27 ☐ Private Network
28 ☐ X.25
29 ☐ X.400
30 ☐ ISDN
31 ☐ T1/E1
32 ☐ T3/E3
33 ☐ PPP
34 ☐ Sonet

LAN Protocols
35 ☐ APPN/LU6.2
36 ☐ AppleTalk
37 ☐ DECnet
38 ☐ LAT
39 ☐ NFS
40 ☐ Novell IPX/SPX
41 ☐ OSI
42 ☐ SNA
43 ☐ TCP/IP
44 ☐ DLSw

Internet Protocols
45 ☐ WWW
46 ☐ Gopher
47 ☐ Mosaic
48 ☐ Archie
49 ☐ Other _____

4. In my job, I specify, recommend, approve, purchase or influence the purchase of the following: (Check all that apply)

50 ☐ Hubs
51 ☐ NIC Cards
52 ☐ Modems/Multiplexers
53 ☐ Wireless LANS
54 ☐ Bridges
55 ☐ Routers
56 ☐ Gateways
57 ☐ Ethernet Switches
58 ☐ Fast Ethernet Switches
59 ☐ ATM Switches
60 ☐ T1/T3 Access Devices
61 ☐ CSU/DSUs
62 ☐ Frame Relay Access Devices
63 ☐ ISDN Access Devices
64 ☐ PCMCIA cards
65 ☐ SNA Devices
66 ☐ Communications Software-TCP/IP Applications
67 ☐ Network Management/Monitors
68 ☐ Network Security
69 ☐ SNMP Software
70 ☐ Internet Access
71 ☐ X Windows
72 ☐ Remote Communications
73 ☐ RMON Software
74 ☐ Other _____

5. On an annual basis, how much do you anticipate your organization will spend on TCP/IP products?

75 ☐ Over $5 million
76 ☐ $1,000,001 to $5,000,000
77 ☐ $500,001 to $1,000,000
78 ☐ $100,001 to $500,000
79 ☐ $50,001 to $100,000
80 ☐ Less than $50,000

6. Number of employees in your organization. (All locations)

81 ☐ Less than 100
82 ☐ 100 - 499
83 ☐ 500 - 999
84 ☐ 1,000 - 4999
85 ☐ 5,000 - 9,999
86 ☐ 10,000 or more

7. Your role in buying decision:

87 ☐ Final decision maker
88 ☐ Specify
89 ☐ Recommend
90 ☐ No role

MT

Pre-Registration — Ticket ❖ 1995

Web Page Listings

Looking for beaches to Netsurf? Herewith we present an assortment of cool, interesting, and informative Web sites to tickle your fancy and stimulate your mind.

3Com Corporation on the Web
http://www.3com.com New product and service information from 3Com, featuring information on adapters, hubs, and internetworking products. [Exp. #139.]

24-Hour Recorded Job Lines For The San Francisco Bay Area
http://www.webcom.com/~rmd/bay-area/joblines.html Listing of jobline numbers. Also, pointers to other local employment resources and online job listings. [Exp. #140.]

Access Monterey Peninsula!
http://www.mty.com Access Monterey! features extensive information for the Monterey Peninsula and sponsors a weekly trivia contest. [Exp. #140.]

Adult CD-ROM Outlet
http://www.webcom.com/~dml/nubody/nubody.html The best in mail-order Adult CD-ROMs with pictures and free catalog. 18+ only. [Exp. #142.]

Agora Digital
http://www.agora.net/ Online service for new and traditional media, including searchable database of industry talent. [Exp. #143.]

Aimnet Corporation
http://www.aimnet.com Prices and services for Aimnet, an ISP for the Bay Area and Silicon Valley. [Exp. #139.]

Air Brokers International
http://www.aimnet.com/~airbroker Visit places around the world, online world travel newsletter, circle the globe, Asia, Pacific. [Exp. #143.]

The Aloha Dateline
http://users.aimnet.com/~ayl/aloha.htm "I found love on the Aloha Dateline! It's a fun, safe, exciting way to meet!" [Exp. #142.]

Altera Corporation
http://www.altera.com Company/product information, job opportunities for Altera (NASDAQ: ALTR), leader in high-performance programmable logic devices and CAE tools. [Exp. #142.]

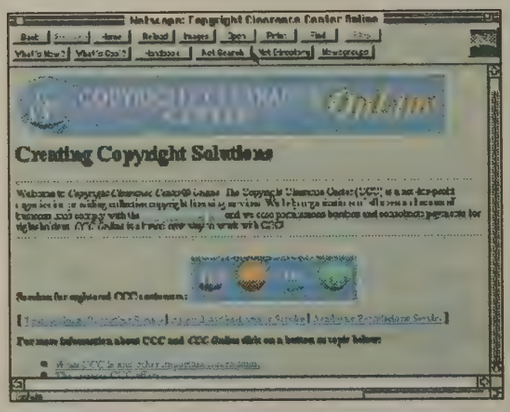
American Bar Association
http://www.abanet.org General facts and resources on the law, continuing legal education courses and requirements, ABA info. [Exp. #141.]

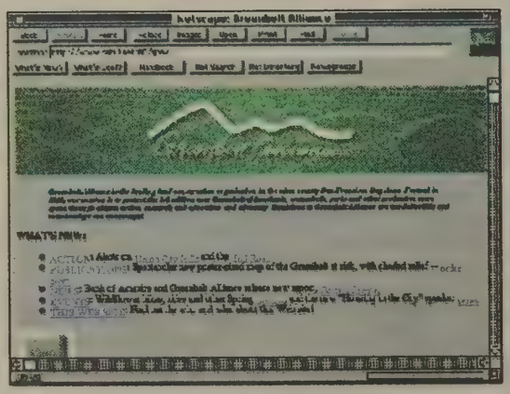
American Communications Association
http://www.uark.edu/depts/comminfo/www/ACA.html For those interested in communication research, communication law, freedom of information, free speech, First Amendment. [Exp. #141.]

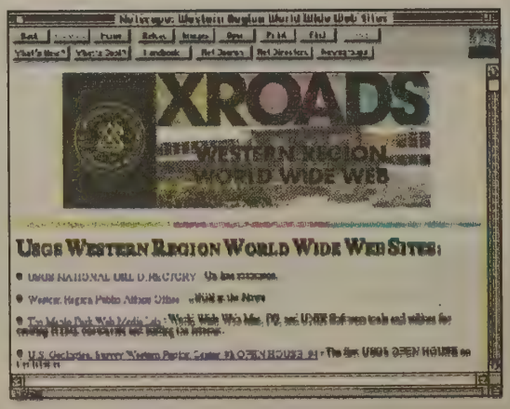
AP Research
http://www.apresearch.com Market research reports and consulting services for PC cards (PCMCIA). [Exp. #141.]

Around-The-World Airfares & Adventures
http://www.highadv.com High Adventure Travel's catalog of discount around-the-world airfares, Himalayan treks, African Safaris, etc. [Exp. #143.]

Art & Artist Network
http://voyager.via.net/netbiz/artist.html International directory of artists, art galleries, and art-related services. [Exp. #141.]







Astrology by Moonlight
http://voyager.via.net/netbiz/astrol.html Monthly personal horoscopes and astrological information. [Exp. #141.]

Astro-Temp
http://voyager.via.net/netbiz/atemps.html High-paying "temp" jobs available now by astrological sign. [Exp. #141.]

The Athlete's Diary
http://alumni.caltech.edu/~slp/tad.html The Athlete's Diary for Windows, Mac, and DOS—complete information and full-featured demo copies. [Exp. #140.]

Australian Embassy
http://www.aust.emb.nw.dc.us General background on Australia, US-Australia trade, the defense relationship, and answers to frequently asked questions. [Exp. #140.]

Azule of Saratoga, Florist
http://www.portal.com/~jdoll/joes/azule Say it with flowers! Order direct via the Net. We ship by wire worldwide. [Exp. #139.]

BahnWare
http://www.bahnware.com/bahnware BahnWare develops WWW solutions for business marketing, distributed engineering, and personal use. Magellan GPS Systems WWW site. [Exp. #139.]

Batman Forever
http://batmanforever.com Artwork, trailers, storyboards, behind-the-scenes glimpses into the making of *Batman Forever*, and more. [Exp. #143.]

Bay Area Real Estate Network
http://www.dnai.com/~ted An excellent resource for buyers and sellers in the Bay Area! [Exp. #140.]

Bay Area Transit Information Project
http://server.berkeley.edu/Transit/ Provides up-to-date public transit information for the San Francisco Bay Area. [Exp. #140.]

BayNet Real Estate
http://www.baynet.com/re.html The Bay Area real estate site. Enter ads for free, search through hundreds of listings. [Exp. #141.]

Best Internet Communications, Inc.
http://www.best.com Internet service provider information. [Exp. #138.]

Bill's House of Financial Independence
http://www.vpm.com/self-help Providing business opportunities for the beginner and seasoned pro. For as little as $20. [Exp. #142.]

Binary Services Solutions
http://www.kaiwan.com/~npham Provider of Internet home page publishing, FoxPro and C++ business applications. Free initial consultation. [Exp. #142.]

Black Data Processing Associates
http://www-leland.stanford.edu/group/bgsa/bdpa/bdpa.html National network of DP professionals, educators, students, and vendor reps. [Exp. #140.]

Bob Bickford's Home Page
http://www.well.com/

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PENTIUM 90 MHz w/256K CACHE	$1380	WIT 486DX2-66 w/256K CACHE	$980
PENTIUM 75 MHz w/256K CACHE	$1280	NexGen NX586	80MHz $1250, 90MHz $1350, 100MHz $1500

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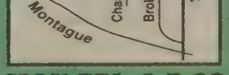

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Web Page Listings *continued...*

Community/rab/index.html The still-evolving home page of Bob Bickford, Professional Wild-Eyed Visionary. [Exp. #138.]

BookNet
http://www.armory.com/~timeline/SCbooks.html Santa Cruz County bookstore catalog. [Exp. #140.]

Buzznet Magazine
http://www.hooked.net/buzznet An SF-based online cultural Web magazine capturing colorful, fresh images, words, and sounds constantly. [Exp. #141.]

The California Libertarian Party
http://www.lp.org/lp/ca/lpc.html [Exp. #138.]

California Association of Residential Care Homes
http://www.hooked.net/users/rallap/index.html Nonprofit association of care providers; current list of vacancies in Santa Clara County; referrals. [Exp. #143.]

California Computer Expo '95
http://www.qualcomm.com/users/gnash/cce.html Largest consumer computer show on West Coast. August 17–20, San Diego Convention Center. 1-800-573-3247. [Exp. #143.]

Career Taxi
http://www.iquest.net/Career_Taxi/taxi.html A forum for the hottest companies to present their home pages and their employment opportunities. [Exp. #139.]

CDworld: Largest Internet Discount Music Store
http://cdworld.com Discount music store with over 100,000 major and independent label music CDs and videos. Ship worldwide. [Exp. #141.]

Ceolas Celtic Music Archive
http://celtic.stanford.edu/ceolas.html Home of Celtic music on the Net, including tunes, artist profiles, sound samples, resources, etc. [Exp. #143.]

CGC Polar Sea
http://www.compumedia.com/~jef Extensive graphics covering last summer's expedition to North Pole and latest Deep Freeze to Antarctica. [Exp. #141.]

Clocks & Time
http://glen-ellyn.iit.edu/~clocks/clocks/ clocks.html Over 200 pages: clock, watch collecting, repair, sundials, time standards: organizations, museums, publications, and software. [Exp. #140.]

Coolware's Place on the Internet
http://none.coolware.com/ Coolware hosts *Good Medicine* Magazine and the electronic Job Guide. [Exp. #138.]

Cool Web Page
http://www.aimnet.com/hia/pcr/home.html For thought-provoking content. [Exp. #139.]

Copyright Clearance Center
http://www.directory.net/copyright Offers an automated process for obtaining and paying for reprint rights. [Exp. #143.]

County of Orange
http://www.oc.ca.gov Information on the Orange County board of supervisors, meetings, and press releases. [Exp. #142.]

Credi-Call
http://branch.com:1080/cc/cc.htm Use your credit card as discount calling card. Up to 90% savings on long distance. [Exp. #143.]

Cryptography, PGP, and Your Privacy
http://draco.centerline.com:8080/~franl/crypto.html Links to many of the Web's resources on cryptography, PGP documentation, privacy-related Web links. [Exp. #140.]

CyberLaw™
http://www.portal.com/~cyberlaw/ Educational service on computer law for computer users published monthly, including CyberLaw™ and CyberLex™ archive. [Exp. #141.]

CyberNautix, Inc.
http://www.community.net/~nautix/ UNIX and Internet technical services firm. System management, training, and custom services described. [Exp. #143.]

Cyno Technologies
http://www.cyno.com/cyno/ Cyno Technologies, Inc. provides computer user authentication systems, including solutions for enhanced remote access security. [Exp. #142.]

DCI
http://www.DCIexpo.com Get the latest information on high-tech conferences and expositions like Web World, EMail World, and more. [Exp. #140.]

Democratic Party Home Page
http://www.webcom.com/~digitals A place to find information on Democratic officials, organizations, and candidates. [Exp. #141.]

Digital Freedom Network
http://www.iia.org/dfn/ Circumventing censorship of published material by posting the works on the Internet. [Exp. #143.]

Easy Resume™
http://www.dnai.com/~lji Free resume outline and sample resume for software developers. [Exp. #140.]

eCenter
http://www.ecenter.com Putting businesses on the WWW in Virtual Trade Shows, general categories, email paging, business information. [Exp. #141.]

EDGE Home Page
http://www.well.com/www/edgehome Home page of EDGE, leading interactive entertainment publisher of *EDGE* magazine and EDGE games. [Exp. #141.]

The electronic Gourmet Guide
http://www.deltanet.com/2way/egg The eGG is the Internet's first full-color food magazine featuring interviews, articles, recipes, columns, news, and links. [Exp. #143.]

The Electronic Telegraph
http://www.telegraph.co.uk Britain's first and best online daily news source—a crossword too. [Exp. #140.]

Employment Today
http://204.188.129.2/netbiz/employ.html High-paying permanent and temporary jobs available now, plus agency listings. [Exp. #142.]

Endeavour Travel
http://www.anzac.com/endnb/endvr.html Information and discount travel packages to Australia and New Zealand. [Exp. #142.]

Enterzone
http://enterzone.berkeley.edu/enterzone.html Noncorporate, professional Web zine. *Enterzone* is a hyperzine of writing, art, and new media. [Exp. #140.]

Enzian Theater
http://magicnet.net/enzian/ Home page of Enzian Theater, film center for Central Florida: special event info, film-related links. [Exp. #141.]

FaxBox Network
http://voyager.via.net/netbiz/faxbox.html How to have your own fax-on-demand box and make money. [Exp. #142.]

Film Analyst On-Line
http://www.kaiwan.com/~stussy/taussig/film01.html A thoughtful analysis of popular and classical movies and the impact on popular culture. [Exp. #142.]

First Virtual
http://www.fv.com/access/by-seller/Internet_Info "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

FLASHERS
http://www.armory.com/~grape/ Daily comics by Elliot Feldman. Bring your own trenchcoat. [Exp. #142.]

Flash Sheridan's Newton Software
http://www.rahul.net/flash-eridn/ Newton Register allows users to pay for shareware via email. Disabler is a startup manager. [Exp. #139.]

Focus on Africa
http://login.eunet.no/~presno/sample4.html Connectivity issues, sources of information about Africa for various applications (news, Web, and gopher servers). [Exp. #138.]

Fountainhead Internet Systems WWW Site
http://www.earthlink.net/~fountainhead Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #141.]

Four Leaf Clover
http://204.188.129.2/netbiz/fourleaf.html How to play the Canadian lottery and make money every month. [Exp. #142.]

Future New$
http://futurenews.com/wall-street Newsstand focused exclusively on forecasting Wall Street and global financial markets. [Exp. #138.]

Galaxy Entertainment Network
http://www.power.net/galaxy Providing entertainment information, showcasing worldwide talent, business opportunities, programming, and weekly Internet funnies. [Exp. #142.]

Girvies Davis Home Page
http://www.mcs.net/~bkmurph/girvies.htm Home page of Girvies Davis, Illinois death row inmate. Clemency petition, articles, "evidence," pictures, audio, more. [Exp. #142.]

Global Campus
http://www.csulb.edu/gc/ Distributed database containing new media for use in enhancing learning and teaching. For educational use. [Exp. #140.]

Global Communications Group
http://www.globalcom.com/global Internet consulting, training, seminars, Web page production. Ten years Internet R&D experience. [Exp. #140.]

Global Futures Foundation
http://www.quiknet.com/globalff/globalfu.html Environmental Web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #142.]

GolfWeb
http://www.golfweb.com Complete source for everything related to golf on the WWW: results, statistics, live reporting, course information, more. [Exp. #141.]

Graffiti Wall
http://www.lh.com/cgi-bin/wall Hot tips and interesting places on the Web. Check it out or share some of the places you have found. [Exp. #140.]

Grant Tracker Home Page
http://www.rahul.net/kendric Software that keeps researchers from overspending their research grants. Download demos: DOS, Win, Mac. [Exp. #141.]

Greenbelt Alliance
http://www.greenbelt.org/gba Everything about the Bay Area's greenbelt of open space: maps, outings, issues, factsheets. Fight urban sprawl! [Exp. #143.]

Greenpeace Climate Homepage
http://www.greenpeace.org/ Berlin Climate Summit info, FAQ on climate change, links to other climate info on the Net, more. [Exp. #141.]

Harmony Central Music Pages
http://harmony-central.mit.edu/ Resources and links for the musician, including guitar, bass, effects, MIDI, keyboards, software, and more. [Exp. #142.]

Hawaii Made Easy!
http://www.aloha.com/~optunehi Learn about one of the healthiest states, and one of the safest. Many businesses and jobs. [Exp. #139.]

homepage.html
http://www.hooked.net:80/users/tpitre/homepage.html Personal page for Pitre and MSRI, Inc. [Exp. #141.]

Home Pages, Inc.
http://www.homepages.com/ A full-service WWW authoring firm and creators of the World Wide Yellow Pages™ at *http://www.yellow.com/*. [Exp. #140.]

Homes & Open Houses
http://openhouses.com Your comprehensive source for real estate information on the Internet. [Exp. #140.]

The Hong Kong Business Directory
http://FarEast.Com/Hong Kong/directory.html Source products, find manufacturers, locate importers and exporters, find hotels, services, suppliers, buyers, even individuals in Hong Kong. [Exp. #138.]

Hooked
http://www.hooked.net Hooked is an Internet ser-

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INTEL Pentium 90/75, PCI IDE Hi-Speed I/O Built-In Triton Chipset, No CPU.....$260
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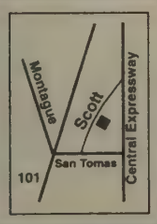

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vice provider using the amazing Internaut software. [Exp. #139.]

HTML To ICADD/Braille
http://www.ucla.edu/ICADD/html2icadd-form.html This form allows valid HTML to be transformed to ICADD and/or Braille for print-impaired users. [Exp. #142.]

Hypnotherapy by Rosa Kitchen
http://www.he.tdl.com/~kitchen Calm, calmer, calmest. Develop a solid, unshakable personal power. Heal from within through hypnosis. [Exp. #143.]

I-Comm: Web Surfing Without SLIP/PPP
http://www.best.com/~icomm/icomm.htm I-Comm is a full-featured graphical WWW browser which doesn't need SLIP/PPP connections. [Exp. #141.]

Imago Dei
http://www.art.net/Studios/Visual/Jaxun/homepage.html An all-digital incarnation of one computer support tech's emerging Muse... [Exp. #141.]

Impact Online
http://www.internex.net/ impact Interactive access to nonprofit organizations, topical issues, and information on a range of social issues. [Exp. #142.]

index.html
http://www.manual3.com/manual3 Manual 3, Inc. is a 13-year-old technical writing firm serving the technology industry. [Exp. #140.]

IndustryNET
http://www.industry.net Keeping in touch with the computer industry. Product and service information including local suppliers. [Exp. #140.]

Infolink Information Center
http://www.infolink.net/ Fastest-growing Internet service provider in Hong Kong. See how to get connected in Hong Kong. [Exp. #139.]

infowerks
http://www.best.com/infowerk/ Cool students/Web consultants page, artistic, interesting connections. [Exp. #139.]

The Institute for Global Communications Progressive Directory
http://www.igc.apc.org [Exp. #138.]

Intelligent Media
http://smartworld.com/intmedia Full-service interactive multimedia production company, service bureau. [Exp. #141.]

The Interactivist
http://199.172.178.200 A place that facilitates Internet social education and activism. Also the home of Free Burma. [Exp. #141.]

Interactivist/Go Digital Online
http://www.godigital.com *Go Digital Interactive Magazine*'s home page: preview of CD-ROM, additional materials, subscribe, send stuff for inclusion, etc. [Exp. #141.]

InterBIZnet
http://www.ibiznet.com/ We provide business in Southern California with Web design, hosting online marketing and Internet expertise. [Exp. #143.]

Internal Revenue Service
http://www.ustreas.gov/treasury/bureaus/irs/irs.html Provides tax forms, answers to frequently asked questions, where to get more help, and where to file. [Exp. #139.]

The International Home Exchange Network
http://www.magicnet.net/homexchange Listings of home exchange opportunities, local cost vacation rentals, bed & breakfasts, "mom and pop" hotels, and more. [Exp. #143.]

International Netsuke Kenkyukai Society
http://www.hooked.net:80/users/yukiyama/ Information on Netsuke Kenkyukai Society and collecting netsuke (Japanese antique toggles). [Exp. #141.]

International Paperweight Society
http://www.armory.com/~larry/ips.html A nonprofit organization dedicated to furthering the awareness of fine glass paperweights. A Mecca of information. [Exp. #142.]

Internet Health Resources
http://www.ihr.com Extensive and practical health resource information for Internet users. [Exp. #142.]

Internet Literacy Consultants
http://www.matisse.net We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #139.]

The Internet MainStreet
http://www.mainstreet.net ISDN and leased line Internet provider for Silicon Valley. Cool eclipse photo. [Exp. #140.]

Internet Presence Providers
http://www.internex.net/ipp Providing business with complete Web site design. Focusing on real estate, art, investments, and online malls. [Exp. #140.]

Internet Roundtable Society
http://www.IRSociety.com Providers of business WWW services: home pages, promotion, etc. [Exp. #139.]

InterNex•Tiara
http://www.internex.net High-speed ISDN Internet access provider. Provide information about ISDN, access options, products, and services. [Exp. #140.]

InterNotes
http://www.tbo.com/notes.html [Exp. #138.]

InVision Consulting
http://www.iconsulting.com/ Leading solution provider of Web page development, Internet connectivity, training, etc. We do it all! [Exp. #142.]

IRIS Media Systems
ftp://ftp.netcom.com/pub/rl/rlai/www/home.html Home of Xantippe—The Information Structuring Workbench, a Windows hypertext/hypergraphics authoring environment for HTML files. [Exp. #141.]

ISDN*tek
http://www.isdntek.com PC-based hardware for high-speed ISDN access. [Exp. #142.]

Japan Summer Program
http://www.kaiwan.com/~stussy/japan95/japan11.html Information about studying photography or the Japanese language in Japan during the summer of 1995. [Exp. #142.]

Jeff's Homepage—The Quam
http://www.emf.net/~quam Jeff's Homepage and link to the Pirate Squid Club. Lots of useless nonsense. [Exp. #141.]

John Perry's Home Page
http://www.perry.com/ I'm B1FF!!! (a film festival), The Liberal Materialists (my band), photos, poetry, and much more. [Exp. #139.]

Jow's trueSpace Home Page
http://csual.cs.ucla.edu/truespace Provides images, utilities, and links of interest to the Caligari trueSpace user. [Exp. #140.]

Karma Kagyu Buddhist Cyber Center
http://144.92.74.130 Introducing Karma Kagyu lineage of Tibetan Buddhism, main teachers, teaching and meditation schedules, presenting quarterly magazine. [Exp. #142.]

KBBS Online
http://kbbs.kbbsnet.com Interesting Web site links, WWW business marketing info, online service info. [Exp. #142.]

Kerry's Connection
http://www.crl.com/~zallar/index.html Comedy Impressions—live and voice mail, QB Experience musical group, SRV School of Performing Arts. [Exp. #142.]

LatinoWeb
http://www.catalog.com/favision/latnoweb.htm Provides a platform for Latino organizations to make their information available to the Internet. [Exp. #141.]

Launch Point Internet Service
http://www.lpoint.com How to get a Web site for your company. [Exp. #142.]

The Libertarian Party, America's Third Party
http://www.lp.org/lp/ [Exp. #138.]

Links From The Underground
http://raptor.swarthmore.edu/jahall/ Original writings, anecdotes, and links with commentary convey a Net and world view on the Web. Coordinated craziness! [Exp. #140.]

Links Golf by Bengtson Company
http://www.well.com/www/bengtson/golf.htm Northern CA golf course directories, travel lodging and dining information, golf product information, and photos. [Exp. #142.]

LinkStor Home Page
http://www.linkstor.com PC network and storage reseller in Silicon Valley. [Exp. #143.]

Loser Love Songs
http://www.slip.net/~mbutler/index.html Home of San Francisco power-pop band the Flex-a-Pleasers. Contains audio of every song in the catalog, more. [Exp. #143.]

Makin' Waves Studio
http://cyberzine.org/html/Waves/wavepage.html Aussie-style humor abounds, complete with free .wav sound files for download. Commercial enquiries welcome. [Exp. #138.]

Marine Jewelry by Robert Straight
http://www.stw.com/rls/rls.htm Ocean life rendered in fine gold jewelry. [Exp. #142.]

Mark Holt's Home Page
http://www.sun.com/sunsoft/cdware/mark.html A collection of cool and unusual Web sites. [Exp. #140.]

Match.Com
http://www.match.com "We met on the Net!" Thanks to Match.Com, the online dating service for the '90s. [Exp. #140.]

Mexico Out of Balance
http://www.igc.apc.org/nacla/mexico.html Hard-to-find, in-depth information and analysis concerning political, economic, labor, and trade issues in Mexico. [Exp. #138.]

Midnight Special Bookstore Home Page
http://msbooks.com/msbooks Midnight Special's motto is taken from Bertolt Brecht: "Hungry man, reach for the book: it is a weapon." [Exp. #141.]

The Millennium Whole Earth Catalog
http://www.well.net/mwec/ 29 pages from the *Whole Earth Catalog* transformed into about 170 Web pages. [Exp. #142.]

Minor Leagues, Major Dreams
http://www.deltanet.com/minorleagues Minor league baseball, hockey, arena football, Indy 500 sports apparel retail sales. [Exp. #140.]

Modulus Graphite
http://www.dnai.com/~modulus Catalog of high-end basses and guitars. [Exp. #138.]

Motorcycle Online
http://motorcycle.com/motorcycle.html Anything and everything to do with motorcycles. [Exp. #139.]

Napa Valley PC Users Group
http://community.net/~stevefc/index.html The home page for the Napa Valley PC Users Group. [Exp. #141.]

The National Center for Employee Ownership
http://www.esop.org/~nceo/ Provides information on employee ownership in the US and elsewhere, and lists publications and events. [Exp. #143.]

Natural World
http://www.cdnet:com/naturalworld Natural World makes 100% nontoxic, all-natural, chemical-free products for cleaning, infant care, nutrition, and pet care. [Exp. #143.]

NetBiz
http://204.188.129.2/ netbiz/netbiz.html or *http://voyager.via.net/netbiz/netbiz.html* Your advertising gateway to the Internet. Home pages and online advertising worldwide. [Exp. #140.]

Netsurfer Digest Home Page
http://www.netsurf.com/nsd Netsurfer Digest is a free, email-delivered e-zine bringing cyberspace directly to your mailbox. [Exp. #140.]

NetWings
http://netwings.com

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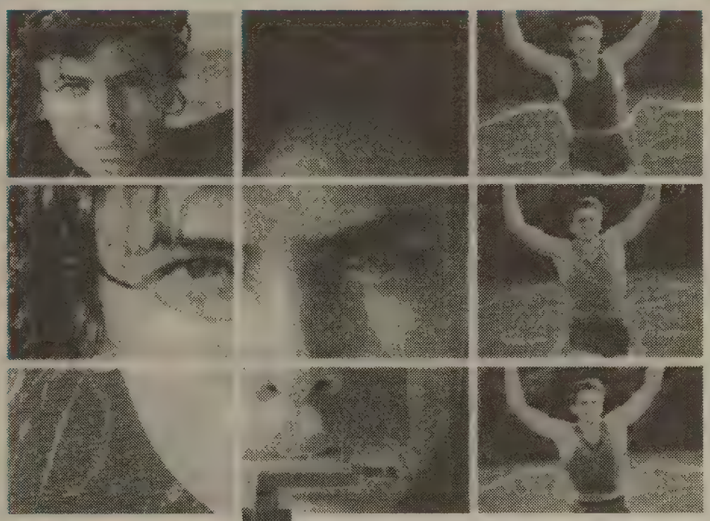

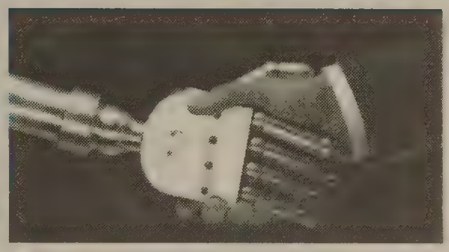

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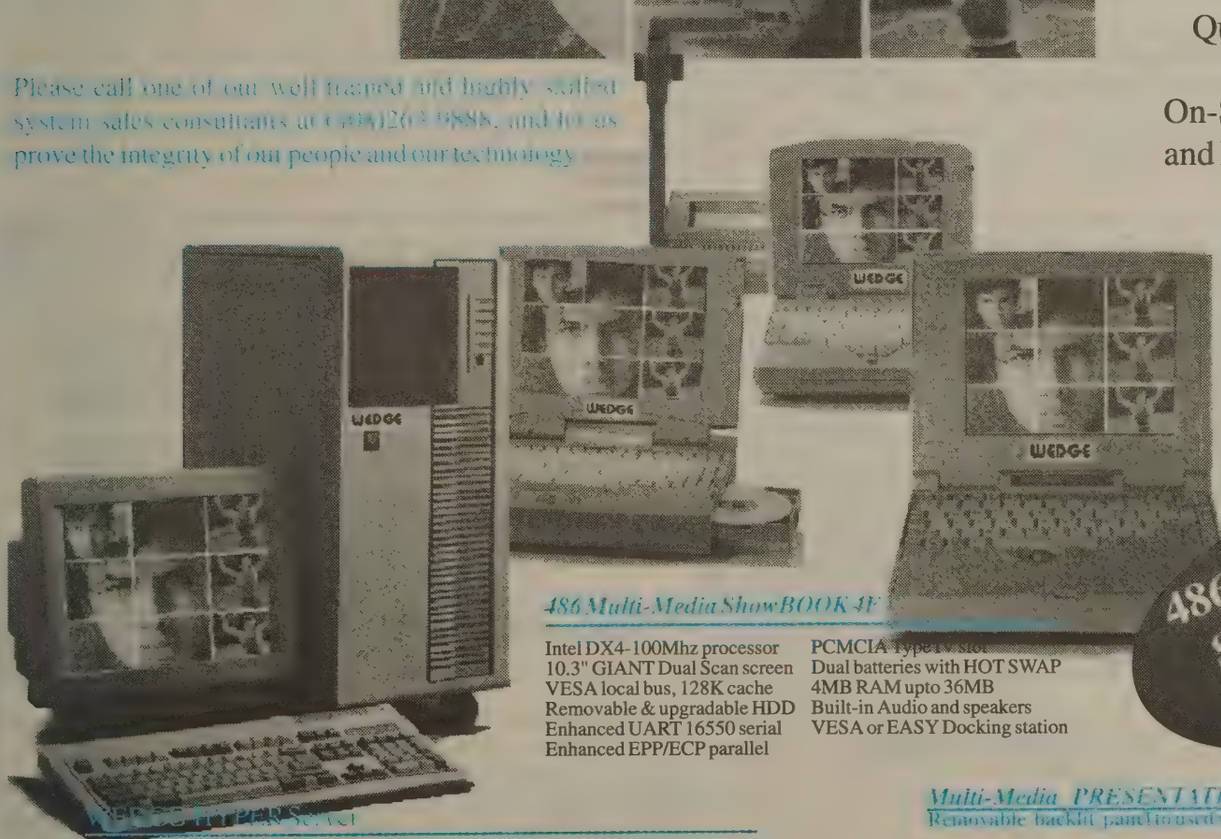

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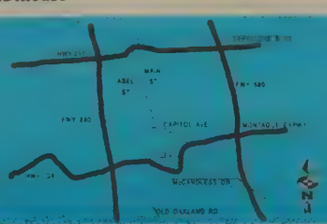

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Fax: 408-263-9886
Email: Wedge1981@aol.com

Web Page Listings *continued...*

NetWings is a software package that turns a small Macintosh into a full Internet server. [Exp. #143.]

Network World
http://voyager.via.net/ net-biz/network.html The international directory of MLM and network marketing opportunities. [Exp. #141.]

New Wave Culture Plaza Inc.
http://www.rahul.net/newwave/newwave.html A mail order company dedicated to Chinese culture. Chinese CDs, LDs, CD-ROMs... [Exp. #140.]

Northern California Guide To Minor League Baseball
http://www.webcom.com/~rmd/baseball/minor-league.html Schedules, directions, ticket info, etc. for San Jose and Stockton. Coming soon: Modesto, Salinas, Sonoma. [Exp. #140.]

The North Pole
http://northpole.net Browse the North Pole; read messages from Santa, his elves, the reindeer; North Pole weather reports. [Exp. #138.]

Novell Service & Support
http://www.aimnet.com/~yungi/lansol.html Novell network specialists—CNE. We offer Novell-authorized network installation, service, and support. [Exp. #143.]

Obscure Research Labs
http://140.249.8.212/ORL/ Specializing in: UFOs, time travel, paraphysics, matrix technology, disinformation tracking, all the answers. [Exp. #143.]

OCSUG Home Page
http://halide.acs.uci.edu/ Home page of the Orange County Sun User Group. [Exp. #143.]

The Omega Transmissions—A Techno-Thriller
http://one.mind.net/omega/index.html An action-packed adventure about NASA's SETI project (Search for Extraterrestrial Intelligence). [Exp. #140.]

The Online Islamic Bookstore
http://www.sharaaz.com Quality books, CD-ROMs, tapes, software on Islam. View screenshots and descriptions of products. Order online. [Exp. #143.]

The Online World Monitor
http://login.eunet.no/~presno/monitor.html A free, bimonthly online product for supporters of *The Online World* resources handbook; subscriptions available. [Exp. #141.]

The Online World—online resources handbook
http://login.eunet.no/~presno/index.html Broadcasting schedules for news in many languages, world travel guides, international affairs, health, much more. [Exp. #142.]

Only Multimedia, Inc.
http://www.webcom.com/~only A widely known, super hot WWW site that your company can be a part of! (818)753-0037. [Exp. #142.]

Open Book
http://futon.sfsu.edu/%7etalon Open Book presents "Women's Journals," an interactive piece that was created exclusively for the Web. [Exp. #141.]

OpenMarket
http://directory.net/netinfo "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

PacNetWeb
http://www.pacnet.com Product and ordering information for Pacific Internet, supplier of products and services for electronic commerce and communications [Exp. #143.]

Palookaville Hats
http://www.primenet.com/~hanibal/hat.html Cool hats for the Global Village Idiot in all of us. [Exp. #141.]

ParentsPlace.Com
http://www.parentsplace.com/ The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and childcare products. [Exp. #143.]

Patrick Salsbury's Home Page
http://www.visionware.com/pat.html 110+ starting points for exploring the Web, HTML URLs, and me on a rock. :-) [Exp. #140.]

PCTravel™
http://www.pctravel.com or *http://www.nando.net/pctravel.html* Real-time online air reservation and ticketing service with encryption and free overnight delivery of tickets. [Exp. #143.]

Phil Gramm for President Campaign
http://www.gramm96.org Speeches and articles from the campaign trail intermixed with graphics, audio and video clips, and more. [Exp. #143.]

PhoenixWeb
http://www.ptltd.com BIOS, plug and play SW, PCMCIA SW, Eclipse SW for desktop, portable, and handheld PCs. [Exp. #140.]

Pikes Peak Cam
http://www.softronics.com A spectacular, unobstructed view of Pikes Peak, updated every two minutes, from the roof of Softronics. [Exp. #142.]

Plug Into AVCom
http://siesta.packet.net/avcom/ Total solutions Web source. We will help you deliver your business concepts via the WWW. [Exp. #143.]

QuoteCom
http://www.quote.com/ Stock quotes, business news, financial market data

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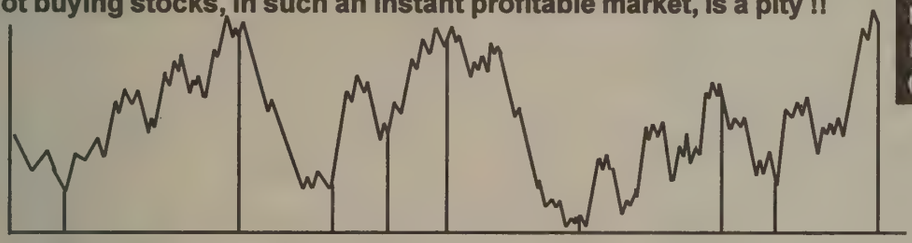

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Web Page Listings *continued...*

for investors. [Exp. #139.]

Randy Ksar's Home Page
http://www.mvhs.edu/~rksar Gives links and documents to those in need of a quick overview of the Web. Also offers Web services. [Exp. #138.]

Resumes Online
http://voyager.via.net/net-biz /resumes.html The place for job seekers to tell the world market of their availability. [Exp. #141.]

The Rivendel Pages
http://umbc8.umbc.edu/akhatt1/Rivendel.html Multiuser chat sites dedicated to communications for global understanding and creative expression. Come visit us. [Exp. #142.]

Rock and Roll Digital Gallery
http://www.hooked.net/julianne/index.html A digital gallery featuring poster art and images with rock 'n' roll as the theme. [Exp. #143.]

Rock Around the World™
http://www.ratw.com Rock Around the World™ radio shows and newspapers: music, interviews, news—the '70s through today. [Exp. #141.]

RTFM World
http://www.dnai.com/~cthomas/rtfm RTFM is an occasional rock 'n' roll band of Sybase tech support people. [Exp. #140.]

sale@exodus.com
http://www.exodus.com The complete solution to Internet access for business, education, and government applications. [Exp. #142.]

Salsa Express
http://www.stw.com/se/se.htm Southwestern culinary catalog. One-stop shopping for your salsa and hot sauce needs. [Exp. #142.]

San Francisco Bay Area And Beyond
http://www.hyperion.com/ba/sfbay.html Pointers to local attractions, entertainment, community services, employment, newspapers, sports, dining, and more. Updated weekly. [Exp. #140.]

The San Francisco Network
http://www.SF.net Growing collection of Bay Area databases and newsletters including restaurants, wineries, entertainment, and commercial locations. [Exp. #138.]

San Francisco Web
http://www.sfweb.com Body, mind, spirit, personals, neighborhoods, and, of course, business listings. [Exp. #142.]

San Jose State University Continuing Education
http://conted.sjsu.edu/ Degree credit, certificate, and professional development courses open to all adults—on and off campus. [Exp. #142.]

San Jose Symphony Home Port
http://webcom.com/~sjsympho/ Meet Maestro Leonid Grin and the 89 musicians of the San Jose Symphony. [Exp. #139.]

San Mateo Times
http://www.baynet.com/smtimes/index.html San Mateo County's only daily newspaper. [Exp. #139.]

The Seamless Website™
http://tsw.ingress.com/tsw/ Advertisements for law firms and legal services providers; law review articles and other legal information. [Exp. #140.]

Sega Web
http://www.segaoa.com Product information and graphics from the interactive king. Contests for prizes. [Exp. #140.]

Seminars in Usable Design
http://www.info-design.com/usable.design Seminars in online information design, UI design, and usability testing. Leaders include William Horton. [Exp. #141.]

Sensational Seminars
http://www.onramp.net/sensational Sensational Seminars, Inc. "We Make Education An Experience" presents "Hollywood In Cyberspace" Monday, April 3, in LA. [Exp. #139.]

Sharrow Advertising & Marketing BizInfo Resource Center
http://www.dnai.com/~sharrow/register.html Advertising and marketing reports and issues, mail order catalogs, ad parodies, humor and sarcasm, digital age issues and essays. [Exp. #142.]

The Shaw Festival
http://www.cyberplex.com/CyberPlex/Arts/Shaw/Shaw.html Information about shows currently being performed by the only company that specializes in plays written during G.B. Shaw's lifetime. [Exp. #138.]

SK Writers Home Page
http://www.skwriters.com A placement agency specializing in technical pubs, marcom, and training professionals. [Exp. #141.]

Sofal's Place
http://www.csua.berkeley.edu/~sophal Sophal's home page has many links to Cambodian-related home pages, not to mention his favorite quotations. [Exp. #140.]

Solutions Seminars
http://www.best.com/~solution Seminars for technical publications and training professionals.

continued on page 323

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- •Micro Solution Quad CD via Parallel Port.....$349
- •PCMCIA 14.4 Fax Modem.....$145
- •MAG 15"/17" Monitor $355/650
- •Hayes Accura 14.4 Fax modem Int ..$95
- •CTX 17" Monitor .27 NI.....$629
- •Canon BJ 200E/LBP 430.....$239/569
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- Windows NT
- AcerAltos SCO UNIX

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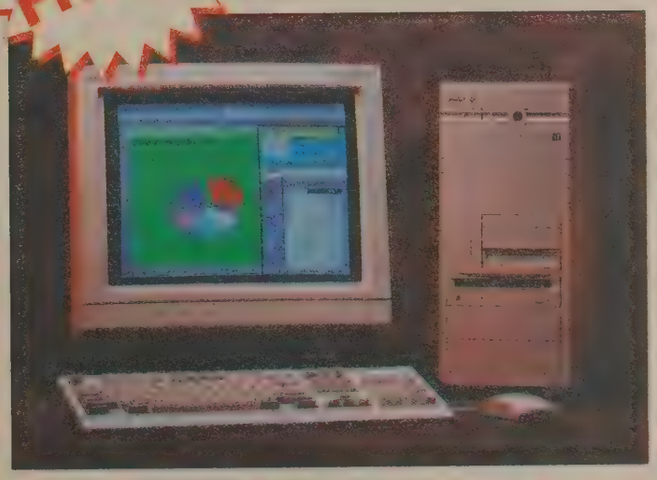

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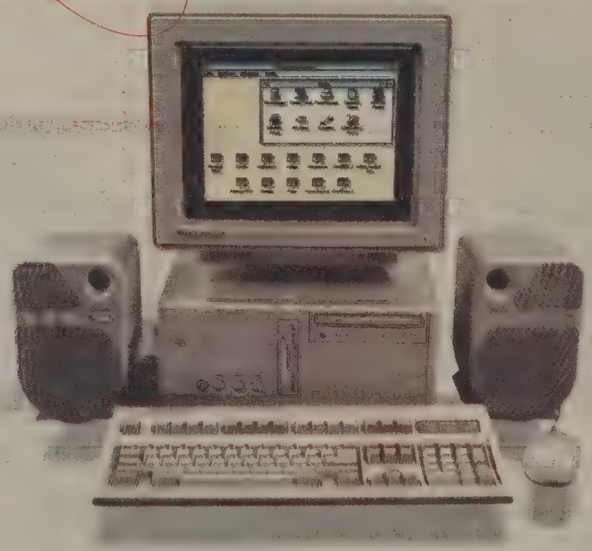

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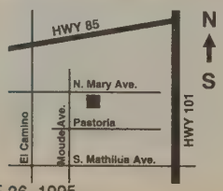

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PC MAGAZINE

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PC MAGAZINE
Feb 23,1993

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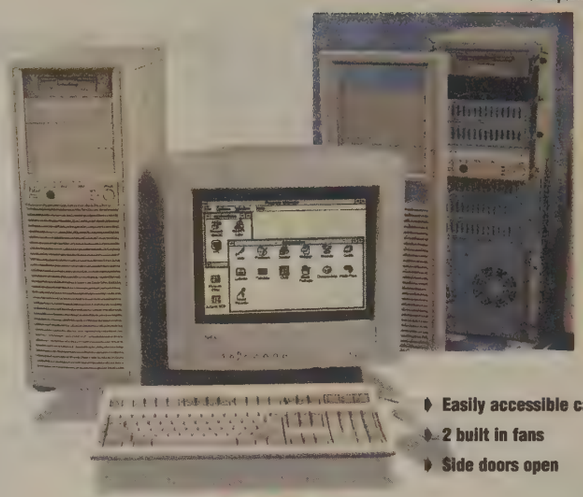

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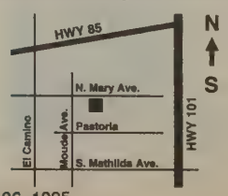

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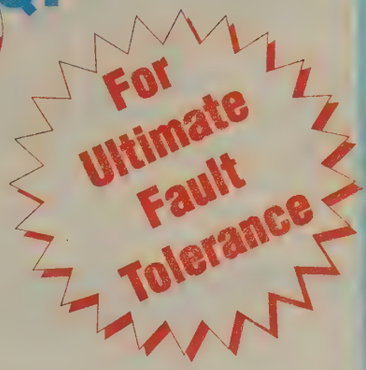

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- SNMP compliant
- Novell Netware 3.1x, 4.1x and Windows NT Advanced Server Certified
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What Is RAID?

RAID stands for Redundant Array if Independent Disks. Simply put, RAID is a storage technology - a subsystem consisting of two or more disk drives working as one. That's misleading, though, because RAID is far more complex. It's a cost effective form of protection that can automatically reconstruct data after a disk crash without forcing you to take your system down. Think of RAID as a sort of miraculous high-tech tire - one that could fix itself even as your car races down the freeway.

How Will RAID Benefit Me?

Reliability

With multiple disk drives, redundant power supplies and fans, the mean time between data loss (MTBDL)) is in excess of 5 million hours. This is crucial when data needs to be available at all times. A drive failure no longer means loss of data or even loss of access to your data.

High Availability

The system is fault tolerant. Menu hardware components, including disk drives, can be replaced while the system remains active, and data remains accessible.

Cost Effectiveness

Using RAID 5, it is possible to provide drive fault-tolerance without doubling the total storage capacity and cost; six 1 GB disk drives provide 5 GB of useable storage. Using mirroring (RAID 1), ten 1 GB disk drives would be required to provide 5 GB of useable storage. The average cost per MB of the Conner CR6-RAID system is no more than mirroring or duplexing and provides fault tolerance.

Flexibility

Most RAID systems have the capability to add capacity by either upgrading the disk drives or by adding modules to the RAID system. Selectable RAID levels also offer different combinations of fault tolerance, capacity and performance. Multiple bus and operating compatibility is offered as well as options for hardware or software RAID implementations.

Increased Capacity

RAID offers an easy way to add hard disk drives to the network. Multiple low capacity disks can be accessed as one large volume.

CONNER

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- 1.44 MB Floppy Disk Drive
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- 16 Bit Sound Card
- PCI SVGA Card
- 15" SVGA Monitor
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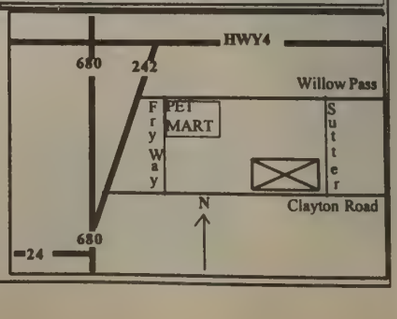

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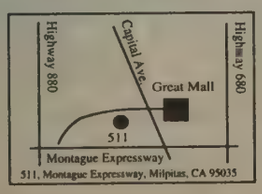

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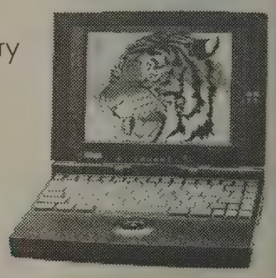

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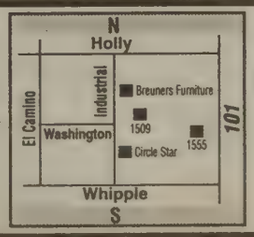

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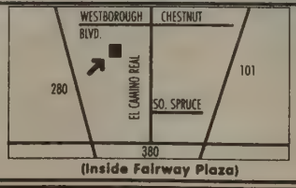

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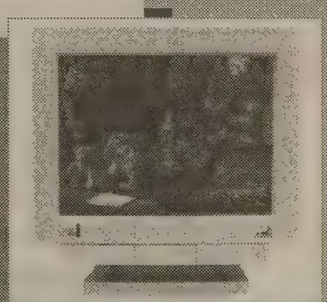

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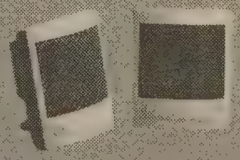

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CYRIX CPU CHIPS

- CX 486DX-33 ..... $119
- CX 486DX-40 125
- CX 486DX2-50 99
- CX 486DX-50 219
- CX 486DX2-80 119
- CX 486DX2-66 110

MEMORY UPGRADES - DUE TO THE RAPIDLY CHANGING PRICES CALL FOR THE LATEST PRICES!

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1x9-80 3 Chip 37
1x9-80/70/60 9 Chip 39/40/41
1x9-10 34
4x9-70 155
4x9-80 150
4x9-60 160

MAC TYPE

1x8-100 8 Chip $36
1x8-80 2 Chip 38
1x8-70 2 Chip 36
1x8-80/70 8 Chip 35
2x8-80/70 89
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16x8-80/70 ..... CALL
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256K VRAM ..... CALL
512K VRAM ..... CALL
16/32/64/128MB Kits for Quadra 700/900 & Mac IIfx, ci ..... CALL
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1x36-60 168
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64x4-15 ..... 5.50
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387SX-25 Cyrix 39
387SX-33 ULSI 34
387DX-20 Intel Tube 36
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Price includes Memory, Board & Installation Instructions

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KXP4450 1 MB 119
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NEC Silentwriter 95 2 MB 109
TI Microlaser 1 MB 98
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Pentium Class Processor

P100 ..... $835
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- SIMMply RAM 159

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	4 MB	117081-003	219
SLT 286	1/4 MB	110237-001	99/259
LTE 386S/20	2 MB	12125-001	129
	4 MB	121125-002	195
Contura Lite 20/25	2 MB	129769-001	125
	4 MB	129769-002	235
	8 MB	129769-003	395
Portable 386	1 MB	107651-001	125
	4 MB	107653-001	310
Portable III2 MB		10-7332-001	125
	EBD	167811-001	225
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	4 MB	118305-001	225
Deskpro 386S (E. Board)			
	4 MB	11364-001	285
	4 MB	112534-001	189
Deskpro 386/33L, 486/33L, 50/25			
	2 MB	115144-001	145
	8 MB	116561-001	375
	32 MB	116568-001	1475
Deskpro 386/20e, 25e (E. Board)			
	4 MB	113645-001	285
Deskpro 386/20,20e,25e			
	4 MB	113132-001	199
Deskpro 286N, 386N, 386SX/20, 386/25M, 486/33M, 486S/25M, 486S/16M			
	2 MB	118689-001	189
	4 MB	118690-001	345
	8 MB	128877-001	395
Deskpro 486/33L, 486/50L, 386/33L			CALL
Prolinea 3/255 & 3/252S			
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	8 MB	141742-001	315
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	8 MB	141685-001	345
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T1800 Satelite	2/4/8 MB	135/210/379

NEC MEMORY

Prospeed 286, 386SX/16 1/2/4 MB		$125/185/269
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DELL NL25, NL20	2 MB	179
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MAC PB 100	2/4/6 MB	89/179/239
Magnavox Metalis 386SX	4 MB	199
NEC Ultralite 286F	1/4 MB	99/199
Packard Bell 386SX	1/4 MB	99/229
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Sharp 678/6881	2 MB	129
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Bravo 486/25 & 4/33	2/8 MB	135/345
Bravo 486LC	4/8/16 MB	189/325/595
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Premium SE 450	4 MB	189
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Introducing: NEW! MULTIMEDIA ACCELERATOR

TARANTULA 64 MK. II

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XingMPEG Player

XING MPEG PLAYER & MPEG VIDEO TITLES (CD-ROM)

- **64-bit Multimedia Engine.**
- **Fast RAMDAC to ensure high performance in true color modes.**
- **Hardware video accelerator: scaling and color space conversion.**
- **Hardware graphics accelerator: enhanced BitBlt and pattern fill.**
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- **Extremely high resolution up to 1600x1200 in 64K colors.**
- **Supports many common software codecs (compress/decompress) including MPEG.***
- **Easy to use customized software: SPiDER Web**

**Software MPEG: The Tarantula 64 Mk. II accelerates digital video by off-loading the CPU intensive task of scaling and color space conversion. Pentium or equivalent performance CPU is recommended for decoding task SPiDER hardware MPEG decoder is recommended for slower system.*

SPiDER Web: FEATURES

- Resolution, Color, Refresh Rate Change
- Refresh Rate and Resolution on-the-fly
- Virtual Screen: Pans and Zooms
- Monitor Centering and Adjustment
- Refresh Rate Check
- Gamma Correction Utility
- Power Management Compliance to DPMS
- Video: AVI playback

SPECIFICATION:

MultiMedia Accelerator: S3 Vision968
Bus: PCI & VLB
Display Memory: 2MB exp 4MB VRAM
Video Connector: DB-15
Video Signal: Analog

"It doesn't crawl, it sprints. And not only is it one of the fastest 64-bit cards you can get, it's also competitively priced."

CMP Windows Magazine Dec. 1994

The Tarantula 64 "is fast and dependable."

OS/2 Magazine, April 1995

TARANTULA 64

End-users who wish to upgrade the original Tarantula 64 to the new Mark II, please contact SPiDER Graphics customer services.

Resolution	Colors	Memory	Refresh Rate
640x480	256-16M	2MB	60,72,75,90
800x600	256-16M	2MB	60,72,75,90,87i
1024x768	256-64K	2MB	60,70,75,80,87i
1152x864	256-64K	2MB	60,70
1280X1024	256	2MB	60,72,75,87i
1600X1200	256	2MB	60
1024X768	16M	4MB	60,70,75,80,87i
1152x864	16M	4MB	60,70
1280X1024	32K-64K	4MB	60,72,75,87i
1600x1200	32K-64K	4MB	60

Available colors: 256,32K,64K,16M, all non-interlaced, except i=interlaced. Graphics modes support vaires between applications and operation systems.

COMPATIBLE DRIVERS SUPPORT:

MS-Windows 3.X	Microstation
MS-Windows NT	Lotus 1-2-3 Release 2.X
MS-Windows 95	WordPerfect 5.1
OS/2 v2.1, 3.0 Warp	Cadkey/DataCAD
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AutoShade	Generic CAD 6.0
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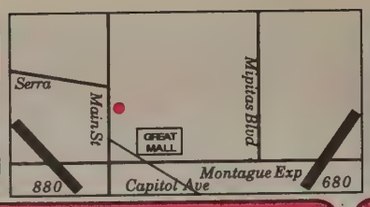

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Intel Triton Zappa P5-100/256K PCI	$705
Intel Triton Zappa P5-90/256K PCI	$580
Intel Triton Zappa P5-75/256K PCI	$500
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Intel Neptune P5-90/256K PCI	$588
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Opti Pentium P5-66/256K PCI + VLB	$382
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486DX4-100/256K VLB (Intel)	$298
486DX2-66/256K VLB (Intel)	$219
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*15" SVGA Non-Int Monitor (1280 X 1024, .28dp)
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*Double Speed CD-Rom
*Creative Labs SB 16 Vibra
*Speakers
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*Microsoft Windows 3.X
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*Intel P5 CPU
*CPU Cooler
*EIDE PCI w/1p,2s W/16550 UART
*8MB RAM
*SPiDER Tarantula Lite PCI w/1M
*1.44 Teac FD
*Keytronics Keyboard
*15" SVGA Non-Int Monitor (1280 X 1024, .28dp)
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*Medium Tower Case w/230W
*Microsoft Ergonomic Serial Mouse
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Genoa 486DX2-66 VLB (Intel)	$1345

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◆ US Robotics Fax/Modem 28,800 v.34	206
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  - Windows Accelerator
  - 16.7 Million Colors
- IDE VLB w/ 1p, 2s, 1g
- 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
- 420 MB Hard Drive
- Mini tower Case w/ 230W
- 101 Enhanced Keyboard
- Microsoft Compatible Mouse w/ Pad
- Free CPU Fan

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486DX2-100(AMD)	$1025
486DX4-75 (Intel)	$1035
486DX2-80 (AMD)	$1010
486DX2-66(Intel)	$1010
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MULTIMEDIA

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◆ SCSI 4xi Multimedia Kit: Toshiba 3601 4xi + Soundblaster 16 SCSI-II Microsoft *Home* software/Dune/MS Mouse Amplified Speakers + Microphone	500

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Adaptec EISA SCSI 2742T OEM w/Kit	250
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Tarantual Lite (S3) PCI w/ 1MB/2MB	87/137
32VESA Local Bus w/1MB/2MB	80/130
32VLB Plus w/1MB/2MB	90/135
BlackWidow Engine ISA 1M/2M	125/175
BlackWidow+ PCI/VLB w/1MB/2MB	150/210
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64 VLB/PCI w1MB/2MB/4MB	112/160/255

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Kelvin 64 VLB/PCI w/1MB/2MB DRAM	135/177
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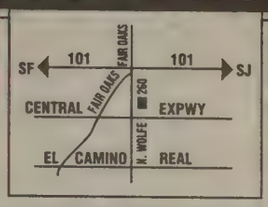

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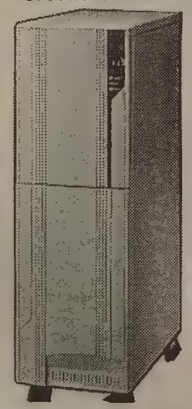

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Intel 'Plato' 90 w/256k	PCI	$671	CPUs: A - AMD; C - Cyrix; I - IBM; i - Intel; Nk - NexGen			$1,483	$1,572	$1,877
Pentium (E) 75 w/256	PCI,VLB	$549			$1,109	$1,339	$1,428	$1,733
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A486DX4-100 w/256	ISA, VLB	$342		$834	$902	$1,132	$1,221	
A486DX2-80 w/256k	ISA, VLB	$314		$806	$874	$1,103		
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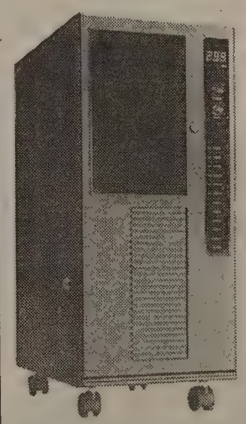

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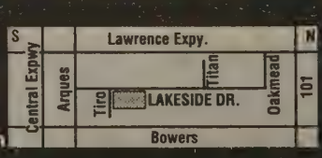

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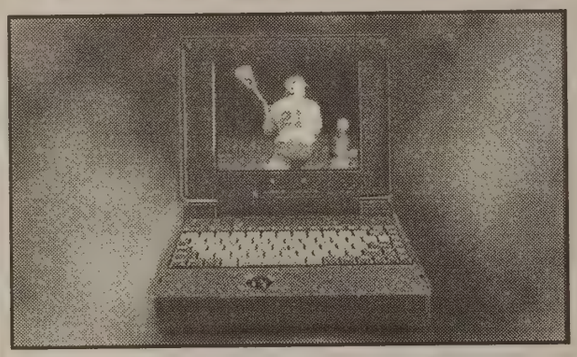

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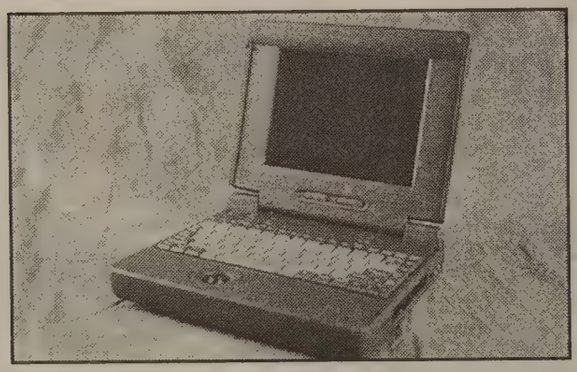

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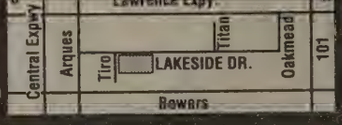

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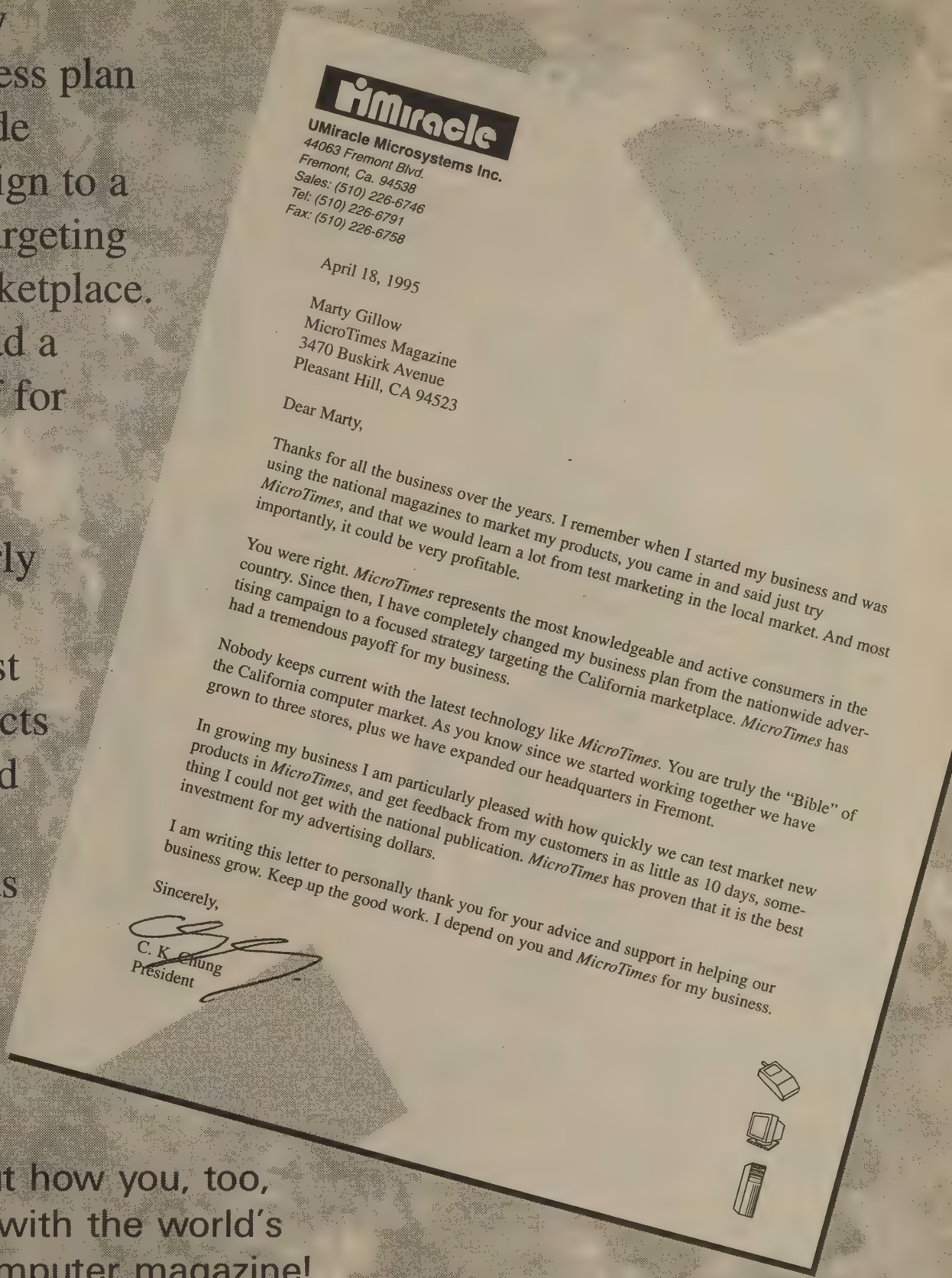

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April 18, 1995

Marty Gillow
MicroTimes Magazine
3470 Buskirk Avenue
Pleasant Hill, CA 94523

Dear Marty,

Thanks for all the business over the years. I remember when I started my business and was using the national magazines to market my products, you came in and said just try *MicroTimes*, and that we would learn a lot from test marketing in the local market. And most importantly, it could be very profitable.

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I am writing this letter to personally thank you for your advice and support in helping our business grow. Keep up the good work. I depend on you and *MicroTimes* for my business.

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What's Right For Writing?

A Brief Look At Four Popular Macintosh Word Processors

By Simson L. Garfinkel

I write for a living, which makes the word processor on my Macintosh Duo 280c the most important program that I run. Unfortunately, I'm still struggling to find a word processor that doesn't get in my way, doesn't spin the hard disk of my PowerBook, has easy-to-use formatting abilities, and above all, is blindingly fast. So far, here's what I've found:

Microsoft Word 6.0: Released last year, Word 6.0 promised perfect file compatibility with Word for Windows, "Wizards" that do the formatting for you, terrific tables, and incredible online documentation. You pay for these features, though: Word 6.0 runs slower on an '040 Mac than Word 5.0 runs on an '030. Word 6.0 also does its best to take over your screen and make it look like you are running a Microsoft Windows program (which you are). No thanks!

WordPerfect 3.1: With Microsoft's debacle, Novell is making a strong play for the Macintosh, and gaining market share. WP3.1 offers many of Word's features that I've come to love: a customizable screen, drag-and-drop text, and extensive file compatibility. Unfortunately, v3.1 doesn't update the Mac's screen properly: start typing in the middle of a paragraph, and your words scroll off the window on the right; the rest of the page isn't updated until you pause. Nevertheless, WordPerfect 3.1 has become a favorite for many, thanks to its auto-correction and slick editing features. For me, though, it's just too slow for my tastes.

Nissus Writer 4.0.6: Few Americans have heard of Nissus, but it's a favorite overseas, thanks to the program's unparalleled foreign language support. Nissus supports all Roman languages and Japanese out of the box; a $100 language key gets you Hebrew, Arabic, Russian, and others. Nissus has nifty features, like the ability to select discontinuous regions of text and split your windows both horizontally and vertically. Unfortunately, it lacks the formatting abilities of Word or WordPerfect, and has a slow screen update as well.

WriteNow 3.1: This is the word processor that I'm using to write this article. WriteNow has got style sheets and a good ruler, but it lacks other features such as drag-and-drop text. Nevertheless, WriteNow's a speed demon: Even on slowpoke '030s, WriteNow updates your entire screen as fast as you can type. Format changes are virtually instantaneous. Written in tight assembly language, WriteNow only takes 700K of RAM. Unfortunately, the assembly language makes it nearly impossible to port this program to PowerPC, which makes WriteNow something of an orphan.

I'll move to WordPerfect when they fix their speed problems. ■

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Microsoft Corp.
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(206)936-8661

WordPerfect 3.1, $495
Novell, Inc.
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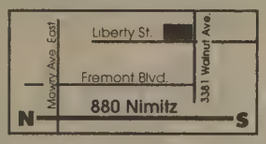

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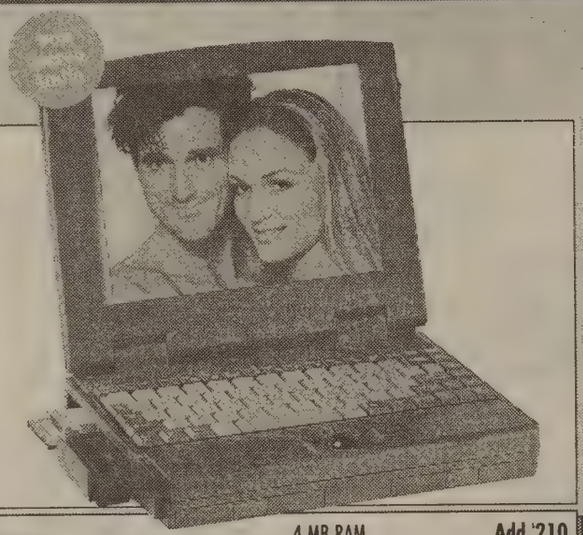

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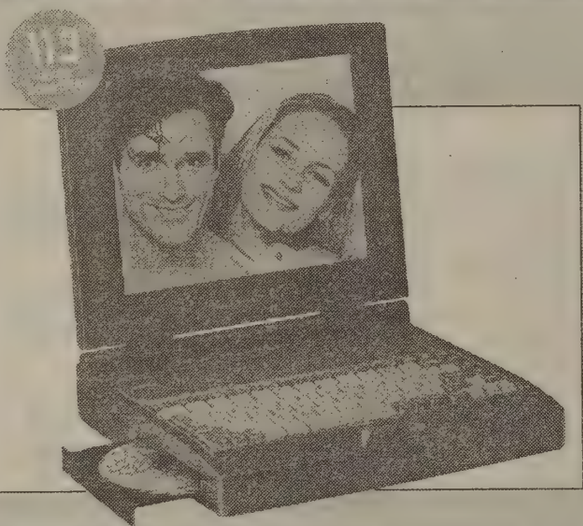

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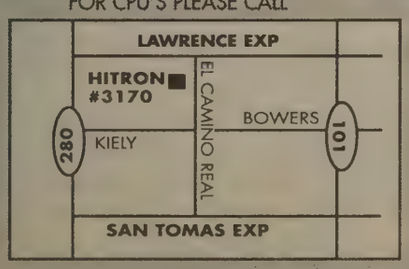

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Tales From The Developer Conference

Copland And Beyond

BMUG • By David Morgenstern

Remember those great days in kindergarten? You'd bring something really, really great from home to class for a show-and-tell presentation. I recollect that once I brought in a dried puffer fish I bought with my allowance at the aquarium. Unfortunately, my show wasn't too well received, since the fish was in its non-puffy state. "It expands, I promise!" I explained. Kids are cruel and I bet that none had ever seen a dried fish of any type, exotic or edible.

These childhood experiences are the first step on the potholed path leading to the product demonstrations and lectures offered every week at BMUG meetings. And just as the audience and presenters have had some let-downs early on, they are prepared for the screw-ups that always seem to make their appearance. "It worked back at the office, I swear!"

The demos flew hot and heavy in May during the annual Apple Worldwide Developer Conference held in San Jose. In addition to a preview of new second-generation PowerPC models, the code-meisters got the skinny on the changes due for the Mac operating system.

Coping With The Future

If there's a secretive company in Cupertino it's Apple. They are nuts about keeping their cards close to the vest. At hard-headed industry pow-wows I've listened to many Apple project managers and marketing gurus talk around in circles about unreleased products and technologies.

I remember sitting next to a young and naive hardware engineer from a big-player company at a recent conference. After listening to an Apple project manager speak in the stratosphere about several topics on a panel discussion, the fellow attendee turned to me and asked if anything had really been said. Of course it had, I answered, but it required the ultra-sensitive ear of a BMUGer to catch the nuances of expression hidden in the non-disclosure-agreement-speak.

Given its closed-door call-out-the-FBI-mentality, why was Apple unveiling Copland, its next version of the Mac operating system, to the press and public in May? Could it have any small byte to do with the release later this summer of Windows '95? Do you think so?

Unlike Microsoft's latest, Copland is expected to come out some time next year. According to Apple, the new systemware will run everything better, faster, and cooler. Sounds like fun!

The new OS will require big changes in the basic structure of programs, and will signal a break with the old Mac architecture that found its genesis in the original 128K beauty. If you have a Mac model that does not use a PowerPC RISC processor, then don't count on riding the Copland train. The first generation of Power Macs were designed to be very compatible with older software, but the forthcoming flavors will be more picky.

Apple said the new software will let Macs run faster and with greater stability. It will use a new PowerPC-native microkernal, or core, that will let it use memory more efficiently and let programs handle large files more safely. Programs will load into memory only what they need at a given point in little chunks instead of requiring the whole kit and caboodle at once.

If you've ever been to a cocktail party with a bunch of PC and workstation geeks then you know the derision surrounding the Mac's lack of "protected memory" and "true multitasking." This will change somewhat with Copland, so we can hold our heads up high and meet them sneer for sneer.

The new software will use preemptive multitasking for some low-level processes, such as the file system, storage, serial input and output, and

continued on page 324

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Apple Multiple Scan 17 Color Display	$35/Mo
Agfa Arcus II Scanner	$108/Mo
Radius 20GS Monitor	$32/Mo
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HP Scanjet IIcx, Color Scanner	$36/Mo
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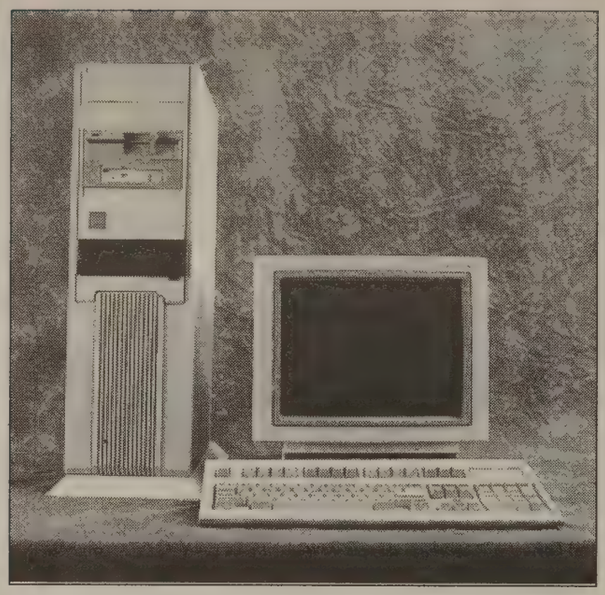
intel inside pentium™ PROCESSOR



Pentium is a registered trademark of Intel Corporation.

90MHz Pentium PCI/VLB

- Pentium PCI Motherboard
- 0MB RAM expandable to 128MB
- Intel Pentium 90MHz processor
- 256K Cache memory
- 3.5" 1.44MB Floppy Drive
- 4 PCI, 2 VLB, 3 ISA slots
- CPU Cooling Fan
- Mini tower case w/ power supply
- 101-key enhanced keyboard
- 1 year parts and labor warranty

$749

100MHz.....$885

GREEN 486DX2-66 VLB

- Green 486DX motherboard
- 256K Cache memory
- 0MB RAM expandable to 64MB
- AMD DX2-66 processor
- 3.5", 1.44MB floppy drive
- 3 VLB expansion slots
- 2 serial, 1 parallel and 1 game port
- VLB IDE HD/FD Controller
- Mini tower case
- 101-key enhanced keyboard
- 1 year parts and labor warranty

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AMD DX2-80 MHz.....$369

GREEN 486DX4 100 VLB

- Green 486 VLB motherboard
- 256K memory
- 0MB RAM expandable to 128MB
- Intel DX4-100 processor
- 3.5" 1.44MB floppy drive
- 3 VLB expansion slots
- 2 serial, 1 parallel & 1 game port
- VLB IDE HD/FD controller
- CPU Cooling Fan
- Mini tower case w/ power supply
- 101-key enhanced keyboard
- 1 year parts and labor warranty

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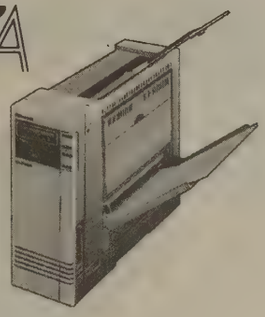

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- 4 pages per minute
- 300 x 300 dpi resolution
- 1MB RAM memory
- 100-sheet multi purpose tray
- Factory refurbished w/ manufacturer's warranty

Laser under $300!

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$299*

EPSON ActionNote 880C Color Notebook

New!

- Cyrix 486DX2/80
- 10.3" DSTN Passive Color
- 8MB RAM exp to 24MB
- Built-in 14.4 faxmodem
- **ActionPoint trackpad**
- Built-in SoundBlaster Pro
- 340MB hard drive
- 1 year waranty
- DOS, Windows, ClarisWorks, Compuserve, America Online

Over $550 worth of software

NE880C **$2695**

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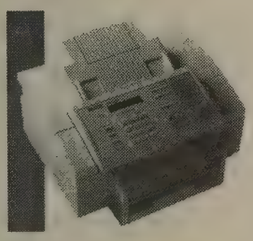

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Perfect Solution!

Printer:
- 600x300 resolution
- 3 pages per minute

Fax:
- 20-page auto-feeder
- 24-page memory

Copier:
- Up to 99 copies
- Reduction capability

For Office or Home

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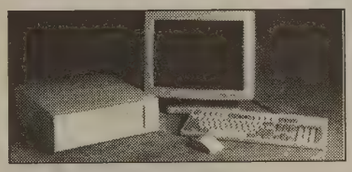
DeskJet 660C	Color inkjet	$ 449.00
LaserJet 4P	600dpi, 12ppm, 2MB	1399.00

EPSON NX System



just arrived!

486DX2-66 Multimedia System

- Intel 486DX2-66 MHz microprocessor
- 4MB RAM expandable to 128MB
- 2MB Video RAM
- 540MB Hard Drive
- Double Speed CD-ROM Drive
- ProAudio 16 Sound Card
- MS-DOS & Windows
- Keyboard, Mouse
- Monitor not included
- 1 year warranty, w/ on-site service

Unbeatable Price!

IE432261 **$699**

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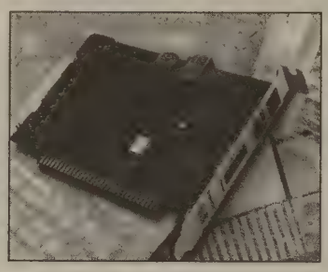

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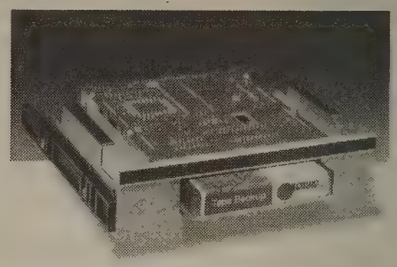
New!

14.400 internal faxmodem

$69

28,800	Internal Version	$ 209.00
28,800	External Version	239.00
14,400	Internal Version	89.99
14,400	External Version	109.00

COLORADO MEMORY SYSTEMS INC.



DJ-20 250MB

Internal Tape Backup

- Fast backup time
- QIC 80 compatible
- Connects to FD controller

$118

DJ-35C	350MB Int.	$159.00
JT-20	250MB Ext	259.00
JT-35C	350MB Ext Trakker	319.00

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3C586-TP PCMCIA Etherlink Adapter

Great for notebooks!

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APA-1460 PCMCIA SCSI Kit

- SCSI-2
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Great for notebooks!

PCA460 **$229**

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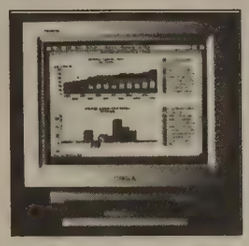

CPD-15sf

15" Trinitron Color Computer Monitor

- .25mm dot pitch
- 1280x1024 resolution
- 60Hz refresh rate
- 3 year warranty
- Color temperature control
- Anti-glare Silicon coating

EPA POLLUTION PREVENTER

$479

1425	14", 1024x768, .25mm	$ 299.00
17sf	17", 1280x1024, .25mm	849.00
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NANAO

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MPR II

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F2•15	15"	.28	1280x1024 @66Hz refresh	**$529**
F2•17	17"	.28	1280x1024 @66Hz refresh	**$839**
F2•17EX	17"	.26	1600x1200 @66Hz refresh	**$949**
T2•17TS	17"	.25	1600x1200 @66Hz refresh	**$999**

NEC

MultiSync Monitors

- 0.28mm dot pitch
- Energy Star compliant
- 3 year warranty

15" MultiSync Monitors

XV15	1280x1024 @ 60Hz	$ 419.00
XE15	1024x768 @ 76Hz	519.00
XP15	1024x768 @ 76Hz	539.00

17" MultiSync Monitors

XV17	1280x1024 @ 60Hz	699.00
XE17	1024x768 @ 76Hz	929.00
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21" MultiSync Monitors

XE21	1024x768 @ 60Hz	1799.00
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14" SVGA Monitors

Impression 3428	.28mm, 1024x768	$ 239.00
Proton 1449	.28mm, 1024x768	249.00
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15" SVGA Monitors

Mitac M1564G	.28mm, 1280x1024	299.00
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EFA XN15	.28mm, 1280x1024	369.00
Panasonic C1591	.28mm, 1024x768	359.00
ArtMedia TC1664	.25mm, 1280x1024	399.00

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Panasonic C1791	.28mm, 1280x1024	649.00

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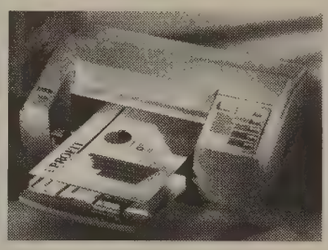
EPSON

Stylus Color Ink Jet Printer



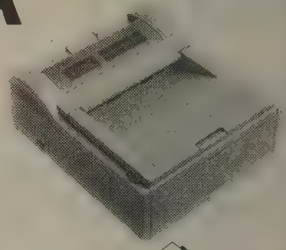
Best Selling Color Printer!

- TRUE 720x720 dpi resolution
- 240cps at 12cpi
- 5 bitmap, 4 scalable fonts
- Windows and Mac compatible
- 100 sheets paper tray
- 2 year warranty

$499.99

OKIDATA®

OL-400e Laser Printer



$50 rebate

- 4PPM printing speed
- 300dpi resolution
- 512K RAM
- 5 year printhead warranty
- 100-sheet paper tray
- 44 resident fonts
- Auto switching interface

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We're at your side.

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HL-630 (Free Extra Toner*)
- 6ppm
- Straight paper path
- 300 dpi reolution

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*Promotion ends 7/31/95

HL-645
- 1MB RAM expandable to 2MB
- 300 dpi resolution
- Straight paper path

$499

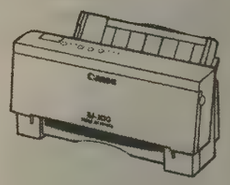
HL-660 ($50 rebate)
- 6ppm printing speed
- 2MB RAM exp. to 10MB
- 600 dpi resolution

$649*

*rebate ends 8/15/95, price includes rebate

Canon

BJ-100 Ink Jet Printer



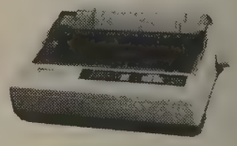
- 360dpi resolution
- 140cps @ 10cpi
- 100-sheet paper tray

**2nd inventory printer*

PTC100D **$129***

Panasonic Office Automation

KX-P2123
24-pin Quiet Printer



- 240cps printing speed
- 10 built-in fonts
- 2 year warranty

PTP2123D **$139***

**2nd inventory printer w/ warranty*

KX-P2023 .....$129*

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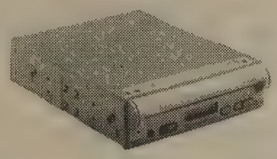

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New!

- 900kb/sec data transfer
- 145ms access time
- 256KB cache
- 2 year warranty

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Multimedia SCSI Kit

- NEC Quad Speed SCSI CD Rom Drive
- Creative Labs SoundBlaster 16 SCSI Sound Card
- Labtec Stereo Speakers
- Microsoft Encarta 95
- Plus 30 more software titles

HDN511K **$388**

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Office Automation OA

PCMCIA CD-ROM Player

Portable CD-ROM Player w/ PCMCIA Card

- 2X Speed drive
- PCMCIA Type II card
- SCSI-2 compatible
- Battery operated
- 2 year warranty

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SS-100

Amplified Stereo Speakers

- Deluxe bass & treble booster
- Individual volume control
- External DC jack

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Media Magic

Quad Speed Multimedia Kit

- Toshiba Quad Speed CD ROM Drive
- 16-bit stereo sound card
- 5 popular CD-ROM titles including

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HDT040TU **$279**

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- 16-bit stereo sound
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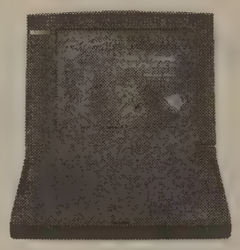


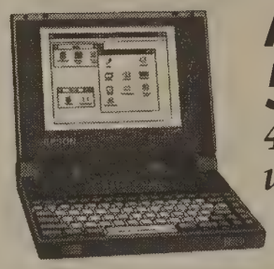
Versa® V
486DX2-50
Color Notebook

- 486DX2-50MHz
- 4MB RAM
- 340MB hard drive
- DSTN Color Screen
- MS-DOS, Windows
- Front-mount trackball

New Lower Price!

N7104541 **$1999**

EPSON



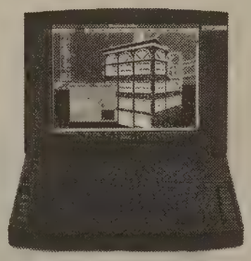
ActionNote 500C
486 Color Notebook under $1000!

- 486SLC-50MHz
- 4MB RAM
- Memory exp to 8MB
- 120MB HD
- MS-DOS, Windows, trackball
- DSTN color screen
- 1year warranty

Best Deal in Town!

NE474211 **$949**

NEC



Versa® P
Pentium
Color Notebook

Hi-Res Color Display!

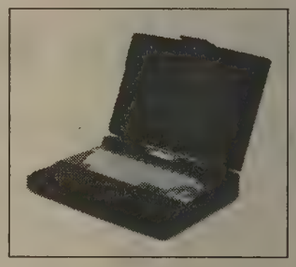
- Intel Pentium 75MHz processor
- 8MB RAM exp to 40MB
- 540MB hard drive
- Hi-Res TFT Color display w/ 256 colors @ 800x600
- Built-in Microphone and Speaker
- Front mount trackball
- 3 year warranty

Multimedia Ready!

N4907552 **$4499**

810MB HD, Full Color, N4901562.....$4699

Canon



9.5" Screen!

InnovaBook 150C
Color Notebook

- 486DX2-66MHz
- 4MB exp to 32MB
- DSTN passive color LCD
- 1MB video memory
- Built-in audio features
- DOS, Windows, Sidekick & more
- 1 year roadside warranty

NBC150C **$1899**

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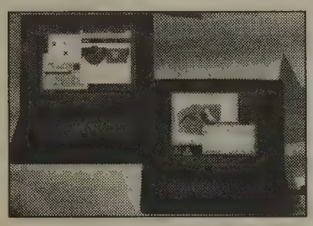
OmniBook 4000C
Color Notebook



- 486DX2-50MHz
- 8MB RAM exp to 32MB
- 520MB hard drive
- 10.3" DSTN color screen
- MS-DOS & Windows
- 3 year worldwide limited warranty
- Other models available

New!

HP1083A **$2816**

4000CT 486DX4-100, 8MB/500MB HD TFT.....$3613

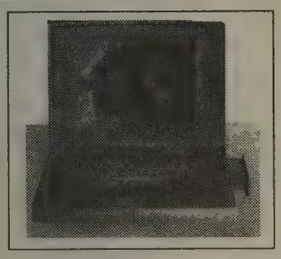
TOSHIBA

T2150CDT
Multimedia Notebook

Best Price!

- Intel 486DX4-75MHz
- 8MB RAM
- 500MB hard drive
- Toshiba Dual Speed CD ROM drive
- 1MB Video RAM
- SoundBlaster compatible
- Built-in speaker & microphone
- Accupoint Pointing Device
- TFT active color screen
- External floppy drive
- 3 year warranty

NT2150CD **$3699**



EVEREX
EVER for EXcellence®

StepNote Color Module Notebooks

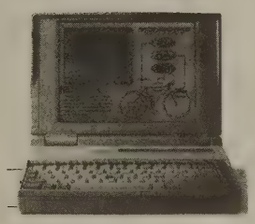
- Intel 486DX4-75 processor
- 4MB RAM exp to 20MB
- 340MB Hard Drive
- DSTN Passive Color Screen
- Built-in 1MB VGA
- Multimedia Ready w/ Microphone & speaker
- Removeable hard drive, screen, floppy drive
- DOS, Win & Mouse included

intel inside

NBV100PY **$2299**

TOSHIBA

T4900CT
Pentium Notebook



Best Price!

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we are living through the birth pangs of a new civilization whose institutions are not yet in place. A fundamental skill needed by policy makers, politicians, and politically active citizens today—if they really want to know what they are doing—is the ability to distinguish between proposals designed to keep the tottering Second Wave system on life-support from those that spread and smooth our transition to the Third Wave civilization.

—***Alvin and Heidi Toffler,*** Creating a New Civilization

In the year and a half since our first visit with futurists Alvin and Heidi Toffler ("Surfing the Third Wave," Issue #118), their work has become even more influential—not least because one Newt Gingrich, who became their friend in his teaching-assistant days, regards their views on technology-driven social change as vital to planning for America's role in the next century.

Last year, the Tofflers were approached by the Gingrich-related Progress & Freedom Foundation for permission to distribute an anthology of their previous work (selections from *Powershift, The Third Wave,* and *War and Anti-War*) with updated commentary. The idea, Alvin Toffler explains, was that the book would be a special educational edition, to be distributed to Capitol Hill types.

After the Foundation had distributed five thousand copies, the book went into commercial publication and bestsellerdom.

Laughs Toffler, "The irony of all that is that the book publisher is Turner Books, so we've got Ted Turner on one side and Newt Gingrich, who wrote the introduction, on the other! Which goes to show that all the standard political alliances and assumptions need to be reexamined—it's something we've been saying for twenty-five or thirty years." (*Creating a New Civilization,* Turner Publishing, ISBN 1-57036-223-8, $7.95)

Who's the Progress & Freedom Foundation, and why do they want us to read your book?

The Progress & Freedom Foundation was just established a year or two ago by a man named Jeff Eisenach. Eisenach is very close to Newt Gingrich.

Perspectives For A CHANGING WORLD

A Return Visit With Alvin Toffler

By Mary Eisenhart

The Progress & Freedom Foundation's position is not exactly the Gingrich position on some issues. They're very close as people. But the point of the foundation, as it appeared to me, is that it wants to have a much broader policy. It wants to work with Democrats as well as Republicans; and it has brought in George Gilder and Jay Keyworth—he's the chairman of the foundation; he was science advisor to Reagan. So it's very much a cutting-edge technologically oriented group, which has, I would say, a fair libertarian streak. We ourselves are not affiliated with PFF, although we like a lot of what they are doing. But not 1000%. Not 1000% anything.

Its pitch is that there's enough bitching and criticism, that what we need are positive images of the future, that progress is still possible within a context of freedom.

I'll give you an example of a position in which they differ with the Republicans, and I share their view. On training and retraining of the unemployed, basically the Republican position seems to be, "Kill the Job Corps and give the money to the states and let them worry about it." The Democrats have come up with a position which says, "No, take the money and voucherize it, give it to the individuals to be able to buy whatever kinds of training they want."

That is a much better, much more Third Wave solution. That's actually like the GI Bill of Rights that came after World World II, but you don't have to wait for a war. That's a good position; that's one example of a position the Progress & Freedom Foundation probably would hold in opposition to the Republican party as such.

I know Eisenach is working with Secretary of Housing Cisneros, he's working with Secretary of Labor Reich, and any number of contacts within the administration. The object is to build a kind of visionary think tank which is not just a captive of the Republican party, although it is still very closely and personally associated.

So that's the story. I think the Progress & Freedom Foundation has a good chance to produce some interesting ideas that we haven't seen around before.

I know they're interested in the whole issue of the civil society, the civil society being all those organizations that are neither government nor corporate—nonprofits, essentially. The churches, the unions, the self-help organizations and so forth—I think they regard that as a very important social system within the society, and have some very interesting notions about how they might be supported financially.

They're trying to do some imaginative thinking, and my hat is therefore off to them. That doesn't mean I have to agree with all the stuff that comes out of it.

So how does imaginative thinking filter into the government process?

With great difficulty. [*laughs*]

I'll tell you. The real answer? It filters in privately, and seldom gets public expression.

What you have on Capitol Hill are quite a number of very smart people, who know much more and are much better than their output suggests. What we've said for many years is that you could have 535 saints and geniuses in the Senate and the House, and Congress would still make stupid decisions, because it isn't the IQ or the intelligence of the members, or even their awareness that is decisive. They are, to a considerable degree, the captive of organized constituencies. They know that, we know that, and it means that they get dumbed down.

I'll give you two examples.

I spoke with one of the top Democratic leaders a few weeks ago, and congratulated him on some victory they had just won—despite their minority status they managed to win something in that day's tactical battle. He said to me, in private, "Don't congratulate me. It was the wrong issue. We had the wrong position. We shouldn't have been pushing this. I am a prisoner of my party and of the game. This is the way the game has to be played."

I think he would agree with Heidi's and my assessment that the system is on thin ice, that it's fragile, that this two-party arrangement could splinter easily next time. That could have some good things about it, but it could have some very toxic things about it as well.

A few days later I got a call from a Republican counterpart of his, a senator. The Republican says the same thing, privately. He says, "I have to spend two-thirds of my time on public relations. I'm on this committee, that subcommittee, that joint committee, etc., etc. Do you think I can possibly know all the things I need to know in order to make intelligent decisions about this? The answer is no! It's simply impossible.

"Therefore my staff makes the decisions. But who elected them?"

So the system isn't really working the way it was supposed to work. It's overloaded. It's blowing its fuses. In our terminology, it's suffering future shock. It can't handle the complexity and the speed of change.

And even when it tries to come to terms with it—for a technological example, when they get email, they tend not to know what to do with it. They want to hear from their constituents, but wait a minute...

"Do we *really* want to hear from them?" [*laughs*] Yes, and "How do we *read* all this stuff?"

This doesn't quite map out to the interest groups—there are all these individuals speaking.

Right. But those individuals will also eventually form groups.

I think what you have therefore is a system which reduces the intelligence of the output, and reduces the significance of the intelligence of the members. Sure you've got a lot of corrupt politicians and stupid politicians, but you've got a lot of quite smart ones also, who are overwhelmed, just plain overwhelmed.

And I should say that it's not just a question of the legislative branch being overwhelmed; the same thing is true for the White House, the same thing is true for the bureaucracy. Nor is it only an American problem. The same thing is happening in many countries.

As far as technology is concerned, I had a really sobering conversation with somebody in, shall we say, one of our investigative agencies, who was complaining about the fact that their computer technology is thirty years old, in the entire agency. They don't know how to handle email, they fax things and even hand-deliver them. They're constrained by stupid secrecy requirements and so forth.

My friend is tearing his hair out because, as he puts it, the bad guys have better technology than we have.

It's like Jim Bidzos of RSA said a couple years ago—Pablo Escobar (who was still alive at the time) isn't going to use a Clipper phone...

[*laughs*] Right! This is true!

A significant thing has happened since we last talked—and technology is part of the picture, but only a part of the picture. I think that the leadership of both parties now understands, although they don't necessarily say so, that the smokestack era is behind us. We're never going to repeople those obsolete assembly lines.

The difference is, as we said in this book, it's easier for the Republicans to cope with that than it is for the Democrats. For the Democrats, their key constituencies are being hurt, decimated. Not only that, the specific changes that they want to make—Gore, for example, with the Reinventing Government initiative. What he wants makes very good sense, but how do you do that if you need the votes of the civil service workers? You can't.

So we really ought to be thinking more subtly about politics, and think about a division of labor. What is it that the Republicans can do that the Democrats can't? And vice versa—like Nixon going to China, which was something the Democrats could never have done. What are the things that the Republicans can get away with and the Democrats cannot, and what are the things that the Democrats can do that the Republicans can't? And somehow, get a division of labor going between them.

I think that happens on certain things. Not consciously, not strategically, not deliberately; but in fact there is a kind of implicit division of labor about issues.

The danger that looms ahead, as far as Heidi and I are concerned, is a sudden multiplication of parties. At one time we would have thought that was a good thing, because we always argued for greater diversity and broader representation. But I have been compelled to rethink that position, or at least to shade it, under the influence of a friend of ours who used to be the chief political correspondent for the *London Times*.

He said, "You Americans have a two-party system. We Europeans live with multiple parties. You say that having more parties would be more democratic.

"But," he said, "in fact it's less. Because if you have multiple parties and you have to form a coalition, that process is always done behind the scenes and in what we would call a smoke-filled room. So the actual creation of a government is less democratic in a multiparty system than it is in a two-party system." That's his argument, and I think there's something to that. If we look at the deals that are made between lead parties and splinter parties in Europe and other parts of the world, we can see that.

Having multiple parties also in no way guarantees the expression of multiple interests or views. I just came back from Thailand, where you have five parties in the governing coalition, six parties in the opposition coalition, and as far as I could see, minuscule differences among them! [*laughs*] They're personal parties with charismatic leaders, and you vote for the person who's leading that particular group, rather than for a set of ideas.

So what sort of approach to government would you like to see?

Oh, I was afraid you'd ask that question. [*laughs*]

I don't have that answer. But what I do believe is this. We have got very smart people in this country, whose profession is organizational redesign. People who think deeply about "How do you restructure a gigantic corporation? How do you change culture in bureaucracies? How do you do all these things?"

We have very smart and creative people working on technological innovation. There's no shortage of creativity. And even, in the case of organizational design folks, of special competence. But almost none of that is addressed to government. It's all in the private sector and focused on change in the private sector.

There are organizations of organizational planners. I would like to see organizations like that; I would like to see technological centers; I'd like to see creative people from many different walks of life, but particularly people with some sophisticated organizational skills, come together and begin a series of conferences, meetings, on how you design a democracy for the twenty-first century. And get inputs into that process from a very broad range of people who would not ordinarily be part of that.

In England, the Royal Society of Architecture just had a contest among young architecture students for the design of a Parliamentary building for the twenty-first century. They had this kind, that kind, and the other kind—one side said, "Well, make it virtual, they're not going to have a building at all."

It seems to me that it would be a really worthwhile process just to get people thinking that change in government structure and in political structure is necessary and is legitimate. To, in fact, invite the public to do that. In Japan the Prime Minister's office will frequently have a contest for essays on the twenty-first century.

I would like to see a call from responsible high-level political leadership that says to college kids across the country, "This is going to be your country. What should a democracy of the twenty-first century be structured like? What organizational and structural changes would be useful?"

Then I come to Heidi's "theory of congruence," which I think is really important—you cannot restructure your private sector organizations as radically as we are doing, and fail to restructure the way the public sector is organized. Each one will choke or kill the other.

I would welcome a conference, at a minimum, to get a society of organization theorists and consultants, people who have been doing this all over the country and all over the world, get together, but focus for once on the public sector, not the private sector. Focus not just on the bureaucracy but on the political structure itself. Knowing what tools are now available to us, knowing what experience we've had in the private sector about the size and scale and structure of organizations—what have we learned from all of that that might provide a better model?

I don't have that model. I don't think anybody does. And if anybody had it too well packaged or too neat, I'd worry about it.

You talk a lot in **Creating a New Civilization** about the ongoing conflict between Second Wave people trying to keep things the way they were, the ones Marshall McLuhan might have characterized as driving with their eye on the rear-view mirror, and Third Wave people that can't wait for the future. Where do you see some of the hot spots in that conflict?

The tax codes. The tax codes are very important because they either drive industries or kill industries. They were designed to support yesterday's Bethlehem Steels of the world. They were designed for the benefit of the giant corporations that were able to lobby them into existence. They act like a dead hand on the new dynamic Third Wave industries where deprecia-

tion can't be over ten or twenty years, it's ten weeks!

We have a tax system which seriously holds back the development of the Third Wave sector. Regulatory stuff, R&D requirements, all of these were implicitly designed, in effect, to prevent the Third Wave from happening.

Then you have a whole bunch of other things. Take the issue of work at home. Boy, did they make fun of us when we wrote *The Third Wave* and said that people were going to work at home. They said, "Ah, visionary nonsense."

Who's against it? Who's against it is the Internal Revenue Service and the trade unions. Those are the two. One of the reasons our hats should be off to Gingrich is that he is in favor of making it easier for people to work at home.

Again, I think the Democrats are not explicitly or specifically opposed to that, but they're in hock to the unions, who are opposed to it.

And who indeed need to see that the adversarial paradigm has had its day, or they're not serving their membership well.

Yes. They're not, and that's why they're dying.

I had a very interesting conversation with a columnist for the *San Diego Union Tribune* the other day, in which he asked me, "Do we need unions?" Well, people do need protection when they're up against a giant organization. But what kind?

What I found myself saying in response is that I suspect what we'll need is something more on an association model, where the associations of home-workers or the associations of people in different industries, whatever they may be, provide certain common services for them. Maybe they provide common health and welfare services, but also maybe they lobby for them, as unions and trade associations do.

Like the AMA does.

Exactly. So that may be more the model toward which we will move. But where you have large numbers of workers doing Second Wave work, rote and repetitive work in frequently ugly and terrible surroundings, they still do need unions. Unfortunately the unions will not be around very long unless they themselves rethink their structure. And the unions historically have always been reactive rather than proactive.

A good example of that—unions used to be local. That's why they were called "locals." It's only when big business began to go national that you got national unions. Big business goes global; unions begin talking about international relationships and so on. So the unions have seldom been imaginative about organizational structure. They've been reactive.

All you have to do is look at the executive board of the AFL-CIO today. There's a fight looming for the presidency, for the first time in many years. it's a perfect example of Second Wave lunacy. Lane Kirkland is president these days, I worked for them years and years ago in George Meany's day, and Heidi was a UAW shop steward. So we know a bit about the labor movement.

The AFL-CIO's a federation, but the real power is in the individual unions, rather than in the federation itself. Some of the unions are now saying, "We're going to fight an internal battle for new leadership." I just read in today's paper that Al Shanker, who's the head of the teachers' union, said, "Why should we have a fight? Nobody has any new ideas anyway." [*laughter*]

Gee, a rare burst of candor...

I might not be quoting him verbatim, but that was the gist.

The businesses that are most successful at this point are not the ones that the unions are historically set up to deal with.

No. We studied labor history, and I know a lot about it. The unions began with the craft unions—the carpenters, the joiners—

Who in turn came from the guilds—

Right. They came out of the guild movement. So you started with these craft/artisan unions, basically, and in the United States it wasn't till the 1930s that the CIO was formed, the Congress of Industrial Organizations. That's when you got mass organization for the mass-production industries—the steelworkers, the auto workers, and so on. There were *heroic* battles just to get organized, just to be allowed to get organized.

In those days, it was very necessary.

Absolutely. And then the AFL and the CIO merged, I believe in 1955. But now the industrial model is fading away.

I suppose that in a sense the craft unions have a better chance of survival than the mass unions in the CIO, which is really strange. But that could well be the case.

The other thing that's happened is that the union membership has gone down very, very radically in the country—and in almost every Western country—and now a very significant percentage of it, indeed I think a growing percentage of it, is in the civil service unions.

Now that's not a very good situation. If you need to have a flexible government, if you need to change government, that's really a bad development. Not that they don't need some form of individual protection against their employers, but...

It's pretty retro.

It is, definitely.

So next week you're speaking at a Washington conference that seems to epitomize Second Wave/Third Wave conflict: "The Global Information Explosion: A Threat to National Security?" What's all that about?

Well, in fact I'm less likely to address that myself. I think that what Heidi and I want to convey to these folks is that the global system has a different structure.

What do you mean by global system?

Let me go back again historically. Before the Industrial Revolution, the world consisted of a whole mishmash of political entities. You had city-states; you had empires; you had duchies; you had leagues of cities; you had the papal states; you had large territories that were ungoverned; you had blurry borders; and so forth.

That's the way the world was. With the coming of the Industrial Revolution and the rise of the modern nation-state, we now have a map in which every inch is neatly delimited, pink and blue and red blotches on the map, and the working assumption has been that you've got x number of nations in kind of a Newtonian conflict with each other. They bounce off against each other; they form a balance of power coalition; but the components of the system, the basic actors, are nations.

What is happening now as we go into a Third Wave world is that we're going back to a much more heterogeneous global order, or *dis*order, in which you have city-states like Singapore; we don't yet have leagues of cities but I'm sure we

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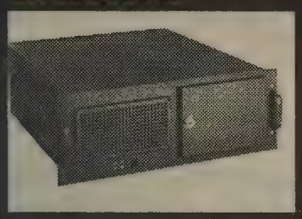

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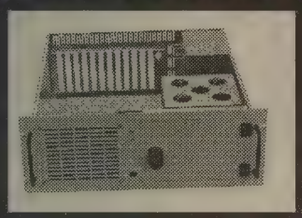

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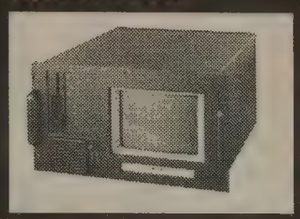

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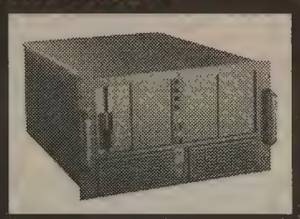

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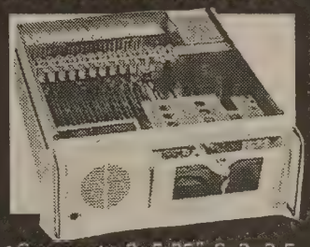

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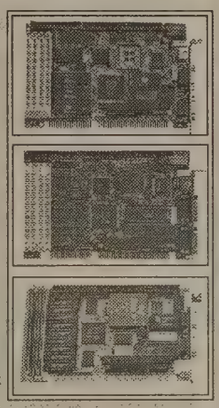

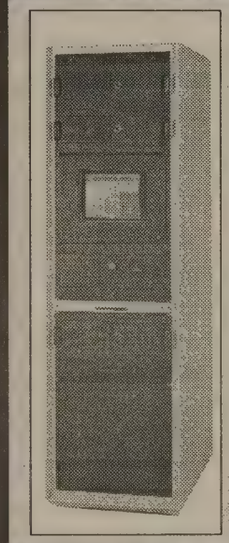

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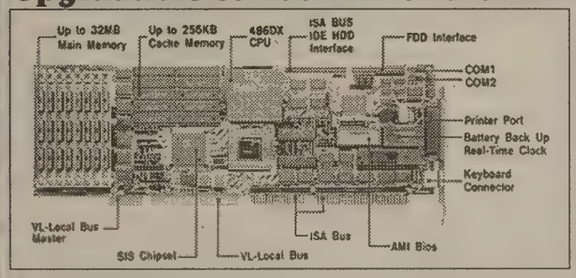

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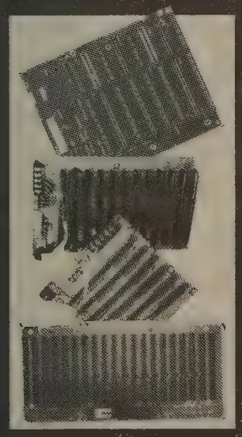

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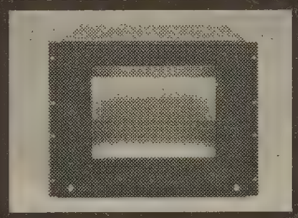

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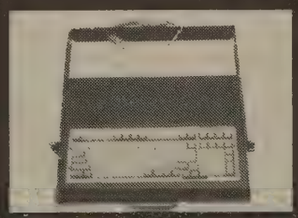

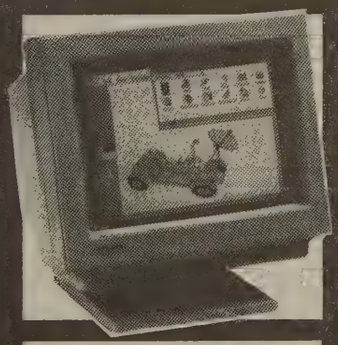

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will. Regions are becoming more important, subnational regions. Bi- and trinational regions are becoming important. New forms of business organizations which are no longer committed to any particular country, essentially stateless business organizations, are becoming important. Religion—Islam, the Catholic Church. *Narcotraficantes.* Global media empires, and the civil societies, the Greenpeaces of the world.

We use a computer analogy. It's as though you have a computer with a lot of different kinds of components in it, instead of a machine that had a handful of homogeneous components. It's a much more complex, dynamic system out there.

In that system what's happening is what we call trisection. We're going from a world in which the basic distribution of power was between industrial countries on top and agrarian countries, shall we say, on the bottom. That has been the dominant distribution of global power ever since the Industrial Revolution.

That's now changing, and what's happening is that we're moving to a trisected rather than a bisected system. Now you have agrarian countries, you have cheap-labor manufacturing Second Wave smokestack countries, and you now have Third Wave countries, or countries in that transition, and each of them has different requirements of the world system.

The other thing, to pursue the computer and communication analogy a bit, is that they require different levels of connectivity. If you're an agrarian country and all you're doing is selling sugar or some other cash crop, or even if you're mining raw materials, you have relatively small numbers of customers, and relatively limited inputs from outside.

I'll give you an example. I visited a company that mines iron ore in Brazil. They've been doing this for decades. They basically have thirty-five customers around the world, and have stable relationships with them. The world price may go up and down, but basically they have very limited contact with the outside world. They don't need a lot of contact in order for that operation to continue.

Contrast that with a Second Wave country, which needs markets all over the world, which needs raw materials, components from all over the place, just to make its product, so it needs a higher level of connectivity.

When you get to the Third Wave, you're talking total connectivity. We had some figures in *War and Anti-War* on that—in 1930 or thereabouts, the US had on the order of thirty or forty treaties and agreements with the outside world. By 1968 we had 280 some-odd treaties and agreements with the outside world. Can you guess what we have now?

We have over a thousand treaties and more than ten thousand agreements. So that's connectivity. That's being linked into the outside world.

There is a naive view that all this interdependency makes for peace. There's an assumption that interdependency is necessarily good—it's global, it's peace-loving, democracies don't fight, trading partners don't fight... Well, this just happens to be historically false. The two greatest trading partners in the world in 1914 were England and Germany.

Interdependency sometimes is positive and sometimes is negative. For us, it has really paradoxical consequences, because what you see is that the smaller and weaker the state or the group, the less constraint it has on its behavior. The bigger and more complex and more Third Wave it is, the more constraints we operate under.

General Aidid can run rings around us in Somalia—he doesn't have to ask anybody. We have to clear every move with the United Nations, with Paris, with London, with Tokyo, with Moscow, before we can do anything. Interdependence can sometimes prevent foolish and stupid and dangerous things, but it can also sometimes allow very dangerous small antagonists to literally run rings around you.

So basically what I want to do at the conference is draw this map, and to get our military, diplomatic, and foreign policy establishment to stop thinking, as they do, that it's still a game of nation-states, and that all our problems are a consequence of the end of the Cold War. I mean, if you ask them "Why are we having these conflicts?"—it's the end of the Cold War. It's the same people who, during the Cold War, attributed everything to the Cold War! [*laughs*]

The end of the Cold War is a symptom.

It's the end of industrialism. We're transitioning out of a giant three-hundred-year powerhouse of a civilization and we're creating a new one. If you look at things in that longer perspective, you then can see patterns that otherwise escape notice.

So we plan to spell this new global model out for them. Now there will be other people there who will be talking; some of them you know very well. Robert Steele will be there—he will be talking about a national knowledge strategy and a National Information Act of some kind—and I want to hear what some of the others have to say. We look forward to meeting some very smart and interesting people that are going to be there.

On this other related question of information strategy, information war—we have met some very, very intelligent people, either in the military or civilians teaching at the military academies and so forth, who have devoted some thought to this; not just thought about "How do you shoot somebody's radar down?", but ethical thought. What are the consequences of information warfare for politics, for morality? They've done some serious philosophical thinking about these issues.

So what's a scenario involving information war?

There is no agreed definition. By and large, the services in their more formal expressions take a relatively narrow view of what information war comprises. As I started to say, it's shooting out the other guy's radar and making sure yours operates! [*laughs*] It's electronic warfare and so on.

That, in our judgment, is a very, very narrow conception. We think we're likely to see very smart players on the global scene, and not necessarily nations, begin to apply information judo to the system. That could take the form of electronic terrorism, or it could be strategic propaganda, putting a spin on things a certain way.

One scenario that's been floating around is—imagine Saddam Hussein wants to start another war, but he wants support from the other Arabs, which he didn't have before. So, using the latest and most effective special effects technology and the best kind of Hollywood talent that you could possibly buy, he makes a program that looks indistinguishable from a CNN special bulletin. It shows Israeli paratroopers attacking Mecca. And he beams it up to a satellite then down to, say, North Africa. And the entire Arab world goes up in arms...

And by the time they go "Ooops," Tel Aviv has been bombed...

continued on page 208

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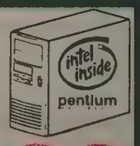

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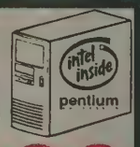

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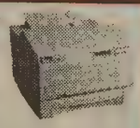

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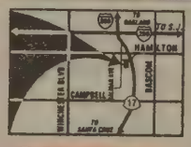

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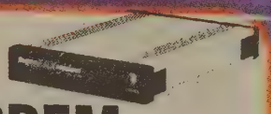

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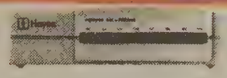

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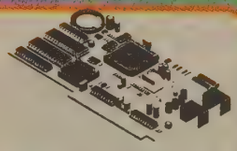

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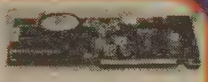

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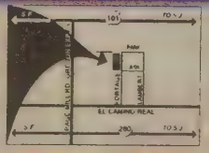

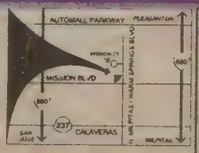

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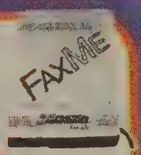

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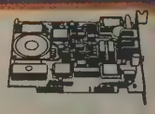

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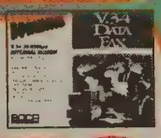

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- 14,400bps Send/Receive Fax/Data Modem
- Speakerphone
- Five Year Warranty

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High Speed Modem Coupler

CONNECTS A PORTABLE COMPUTER TO ANY TELEPHONE EASILY.
- Accoustic coupling with telephone handset
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- Full or Half Duplex Communication Mode

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CP+

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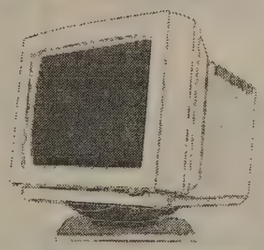
MONITORS

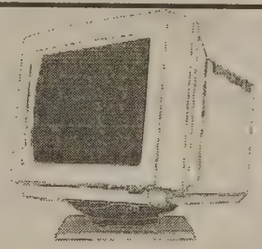
15" DIGITAL CONTROL SVGA MONITOR



NON-INTERLACED
1024 x 768
.28mm DOT PITCH
#1990401

$295

HITACHI



SuperScan™ 15s
Non-Interlaced
1280 x 1024

15" SUPER VGA MONITOR

Non-Interlaced
.28 dpi
Flat Screen
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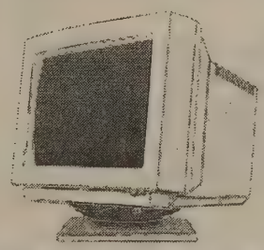
$395

NEC



XV15
Multisync

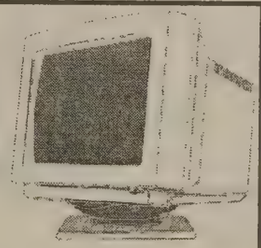
15" FLAT SCREEN SVGA MONITOR

- 1280 x 1024
- EPA Energy Star Compliant
- VESA

#1988934

$429

17" SUPER VGA MONITOR



1024 x 768 • .42mm DOT PITCH • ANALOG
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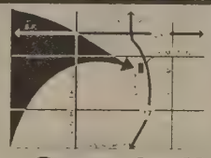

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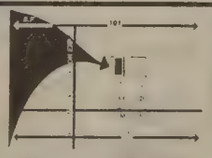

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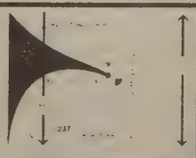

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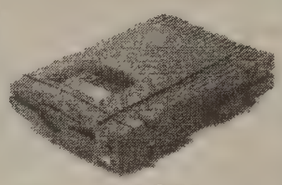
i·MEGA



100MB SCSI ZIP DRIVE SOLUTION FOR MACINTOSH®

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- Redline! Disk Utilities • Stackable
- Five Year Warranty

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- Redline! Disk Utilities • Stackable
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EXTERNAL REMOVEABLE HARD DRIVE FOR MACINTOSH®

External, removeable Syquest hard drive with one 200MB Cartridge and cables

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EXTERNAL REMOVEABLE HARD DRIVE FOR MACINTOSH®

External, removeable Syquest hard drive with one 270MB Cartridge and cables

#2008152

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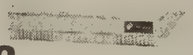
2.0 Gigabyte External Hard Drive for Macintosh®



Cables and software included.

#2033433

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2.0 Gigabyte QIC External Tape Back-Up for Macintosh®

- Easy to set up and use
- Cables and software included

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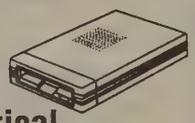

230MB Magneto-Optical Rewriteable Disk Drive for Macintosh®

- 230MB total formatted capacity
- Average Seek Time: 30ms typ
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- 50 pin DB centronics (input)
- One Inch Height

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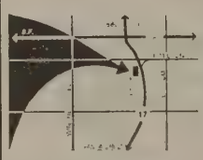

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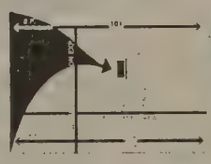

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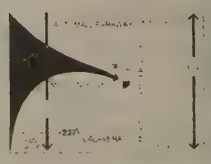

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300,000MTBF
2 Year Warranty • 128K Buffer
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Quantum™

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3.5" x 1" ht.
128K Buffer
2 Year Warranty
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• 3.5" x 1" ht. • 3 Year Warranty
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• 512K Buffer
• 5 year Warranty
#2032753

$849

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4.29 GB SCSI-II HARD DRIVE

• 9ms Seek Time
• 512K Buffer
• 5 year Warranty
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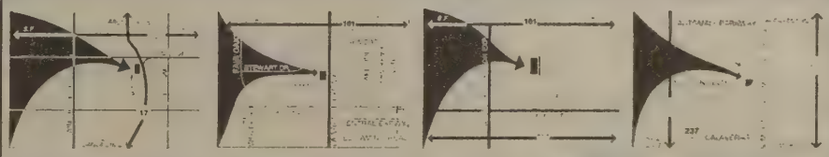

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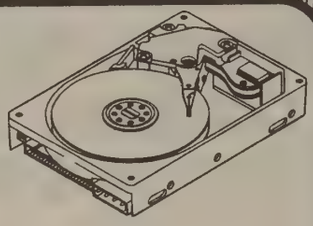
HARD DRIVES

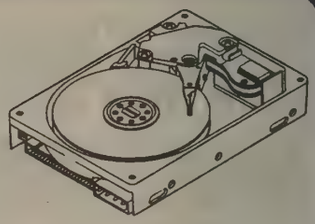
CONNER
420MB 3.5" IDE HARD DRIVE



14ms Fast Access • 3.5" X 1" • 64K Buffer
IDE Interface
#1886218

$145

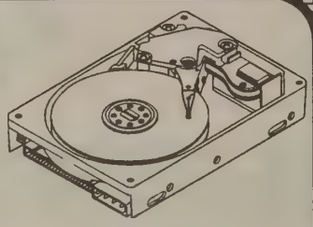
Maxtor
540MB IDE HARD DRIVE



3.5" X 1"HT.
12msec Seek Time
32K Buffer
#1981580

$159

420MB IDE HARD DRIVE

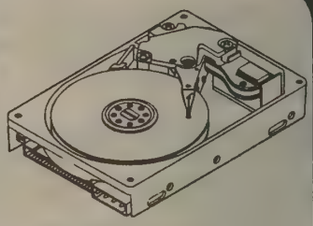


- 3.5" x 1" ht.
- 128K Buffer
- 12ms Seek Time
- 2-Year Warranty

#1920787

$159

560MB IDE HARD DRIVE



- 3.5" x 1" ht.
- 12MSec Seek Time
- 256K Buffer

#1949933

$164

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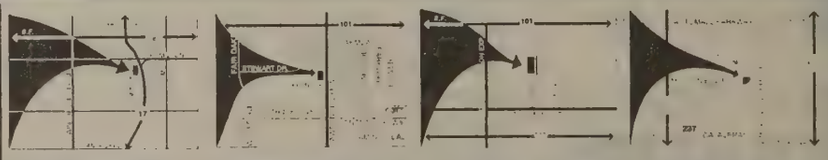

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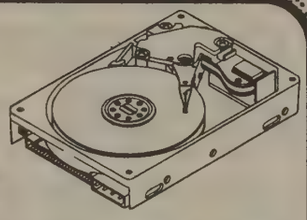
DISCOVER NOVUS VISA MasterCard

HARD DRIVES

Quantum™
730MB LIGHTNING IDE HARD DRIVE



- 11MS Seek Time
- 3.5" x 1" height
- 128K Data Buffer

#1983571

$215

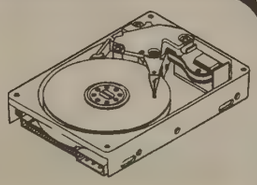
Western Digital
850MB ENHANCED IDE HARD DRIVE

- 10 MS Seek Time
- 3 Year Warranty
- 3.5" x 1" ht.

#1988510

$219

CONNER
850MB ENHANCED IDE HARD DRIVE

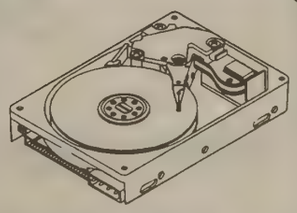


- 1" x 3.5" Size
- 14ms Seek Time
- 64K Buffer

#1981513

$209

Seagate
1.08 GB ENHANCED IDE HARD DRIVE



3.5" X 1" ht.
12msec Seek Time
256K Buffer
Fast ATA
#1990799

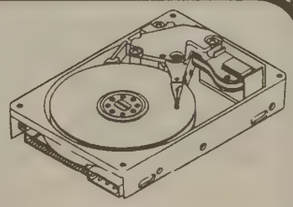
$295

Maxtor
1.2 GB ENHANCED IDE HARD DRIVE

3.5" x 1" Ht.
256 K Buffer.
12ms Seek Time
#2010674

$299

CONNER
1.2 GB ENHANCED IDE HARD DRIVE



- 3.5" Enhanced IDE
- 14ms Seek Time
- 64K Data Buffer
- 2 Year Warranty

#1981524

$298

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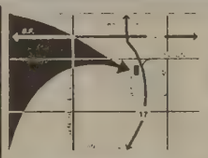

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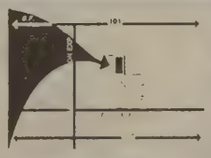

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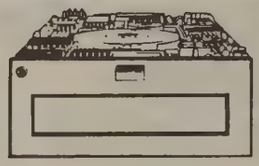
YOUR BEST STORAGE TAPE BUYS ARE ALWAYS AT FRY'S!!

IOMEGA 250MB INTERNAL TAPE BACK-UP

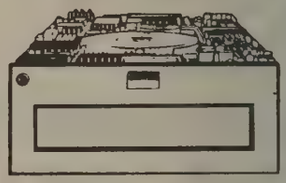


Uses DC2120 Cartridge

$99.95

#2015152

CONNER 420MB INTERNAL TAPE DRIVE

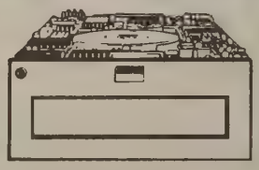


- Plugs to floppy controller
- Includes 420MB tape cartridge

$139

#1975019

COLORADO MEMORY SYSTEMS INC. HP-T1000 800MB INTERNAL TAPE BACK-UP



TRAVAN

- Read/Write Compatibility w/ QIC 80/wide

$197

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CONNER TRAVAN 800MB INTERNAL TAPE BACK-UP

- Read/Write Compatibility w/ QIC 80/wide

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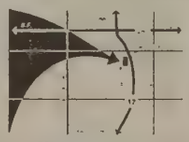

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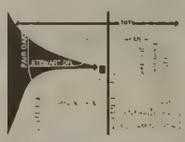

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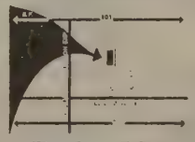

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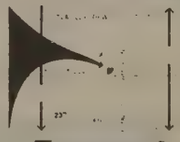

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STORAGE CD-ROM AND SPEAKERS

QUAD-SPEED CD-ROM KIT

- Teac Internal Quad-Speed drive with controller card
- 195ms access time and 600 KB/sec. transfer rate
- Data and Audio Cable included
- 50 exciting shareware titles
- Meets MPC2, XA, and multisession Photo CD specifications
- Two-year warranty
- Free technical support
- Easy to install and use

#1998362

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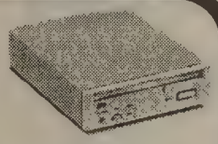
Formerly Texel

6-SPEED INTERNAL CD-ROM DRIVE



145ms Access
900KB/sec Transfer Rate
256K kBuffer
2Year Warranty
#2011491

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DIAMOND MULTIMEDIA

QUAD-SPEED CD-ROM KIT 500

- Quad-Speed CD-ROM Drive w/600kb/s Transfer and 230ms Access
- Cables to Work with Any Sound Card
- Compton's 1995 Interactive Encyclopedia CD-ROM
- Installation Software
- Diamond's Pictorial Installation Guide
- Works with all Sound Blaster Compatible Games
- Free Technical Support

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Sun Moon Star

INTERNAL CD-ROM DRIVE

SONY CDU-55E with Controller Card

- 250 ms access time
- 256 KB cache memory
- 300KB per second Data Transfer Rate
- Multi session Kodak Photo CD

CDU-55E
#1981683

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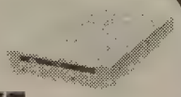
INTERNAL QUAD-SPEED CD-ROM DRIVE



- 250MS Access, 600KB Data Transfer Rate, Multisession Photo CD Ready
- High-speed IDE (Atapi) interface card
- Cables, mounting hardware and utility software
- Installation video CD-ROM TITLE
- New Grolier's Encyclopedia

#2002293

$198

REVEAL

CHINON AMERICA

CDS-525S DOUBLE-SPEED, SCSI-2 PERFORMANCE CD-ROM DRIVE

- 280ms Average Access Time
- 300K per Second Data Transfer Rate, 150K per Second for Audio CD
- Built-in 64K SRAM Data Buffer
- Caddyless Front Loading System
- SCSI-2 Compatibility allows Daisychain Connection of up to 7 Drives
- 5 CD Titles including Grolier's Encyclopedia, World Atlas, USAtlas and More!

#2010803

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SONY.

Discman CD-ROM PRD-150

PCMCIA Chart connection cd-rom discman
- MPC2 Performance
- 300KBPS Transfer Rate
- 380MS Access Speed
- Software Driver, Headphones, Interface ICard, AC Adapter supplied

#2012366

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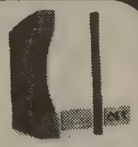
YAMAHA

POWERED MONITOR SPEAKERS



Unbelievable sound and music reproduction in speakers smaller than two cowboy boots- with 10 watts per channel output, 80Hz deep bass response, full volume and presence control, pure spruce wood cones, and Yamaha's exclusive Active Servo Technology!
YST-M10H
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Labtec

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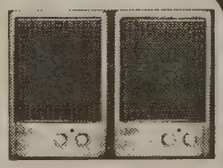

- 3" Micro Stereo Speakers
- Shielded, Amplified
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- 3.5mm Stereo Plug

CD-1
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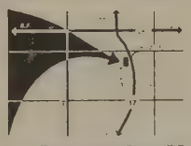

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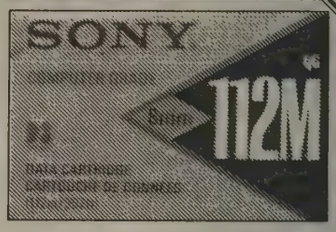

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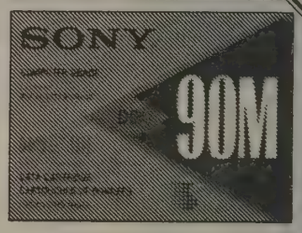

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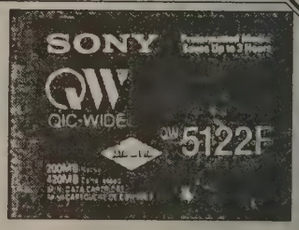

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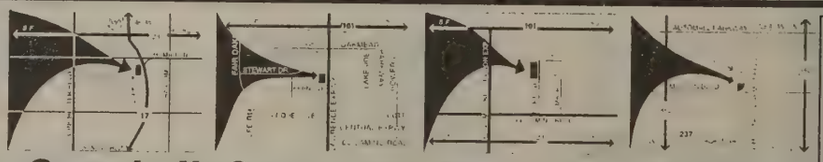

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16-Bit Stereo Sound
32 Operator Wavetable Synthesizer

Advanced wavetable synthesis uses real instrument samples. It has the Digital Signal Processor (DSP). Features include Sound Blaster emulation. 16-bit stereo sound, 44.1kHZ record and playback, general MIDI compliant and a joystick port. It is upgradable to speech recognition game.

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Sound Blast 16 Value IDE
- 16 Bit DAC
- Stereo
- Interface
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Portable PC-to-TV Encoder

- External VGA-to NTSC converter (VGA to TV/videotape) for your laptop or desktop PC
- Drives both VGA and TV simultaneously
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MultiPro CTV

External VGA-to-video/TV encoder for your PC or MACINTOSH

- Record,edit or playback audio and video from your PC or Macintosh video output.
- Easy to use and easy to install-just plug and paly
- Supports up to 16.7 million (24-bit) colors with standard VGA (640x480) resolution.
- Dual display support cability (VGA monitor and TV/VCR simultaneously).

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- 8 and 16 digital recording and playback from4kHz to 44.1kHz sample rate.
- Built-in CD-ROM interface supports Sony, Mitsumi,Panasonic and IDE.
- EasyStart installation.

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TeleWave Audio 32

- DSP based wave table & FM synthesis combo sound board.
- 32 simultaneous stereo voice polyphony and General MIDI standard support with 128 instruments
- 2MB of CD-quality sampled instruments sounds store in ROM
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- Built-in CD-ROM interface supports Sony, Mitsumi, Panasonic and IDE.
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Quad-Speed Multimedia Kit

- Quad-speed CD-ROM drive
- 16-Bit, CD-quality stereo sound card, wavetable synthesizer upgradeable
- 50 exciting shareware titles on CD
- Premium stereo speakers, microphone & headphones
- Compton's Interactive Encyclopedia
- Installation Video
- 100% sound blaster compatible guaranteed
- FREE technical support
- 2-year warranty

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Create an interactive PC entertainment, education, and work center for the entire family!

- Sound Blaster 16 stereo sound card
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- Plus 22 additional top selling multimedia software titles!

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- High Quality Compact Microphone
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- 16-Bit Stereo Sound Card
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- Stereo Speakers
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CREATIVE LABS, INC.

- Sound Blaster 16 stereo sound card
- Double-speed internal CD-ROM drive
- Stereo speakers
- Includes 5 multimedia software titles

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Sun Moon Star 16-BIT MULTIMEDIA UPGRADE KIT

Includes:

- **Sony double-speed CD-ROM Drive CDU-55E**
- True 16-Bit Stereo Sound Board, with Sony IDE Interface
- Action 100 (includes 100 shareware games)
- Mini Speakers
- Easy installation software
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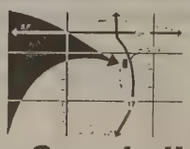

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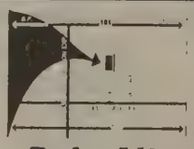

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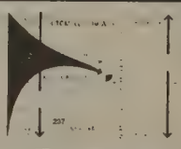

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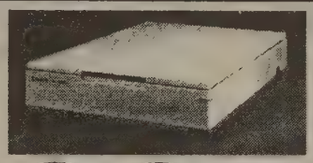


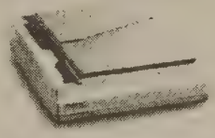
The IX-4015 comes with everything you need to start scanning today, including a Quick Start Guide, OFOTO 2.0 for Windows, SCSI Cable and Cable Terminator, and TWAIN Device Driver for the PC
- 400 dpi x 1200 dpi Maximum Resolution
- Color: 12 - 800 dpi, Monochrome: 12 - 1200 dpi
- SCSI Interface

#1997578

$697

RELISYS RELI 2412 COLOR SCANNER

A Brandname of TECO Information Systems



- Resolution 300 X 1200 dpi
- True Single Color CCD sensor
- Software Interpolation 2400 x 2400 dpi
- 16.8 Million Color Recognition
- ColdScan Technology • Art-Scan Scanning Software
- Auto-Configuration SCSI Card

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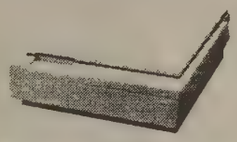
EPSON ACTION SCANNER ES-600C



The ES-600 is designed and engineered to satisfy all your scanning needs. It offers an impressive list of standard features, unsurpassed system connectivity, exceptional color, monochrome and black and white image quality, and innovative options. Resolution from 50 to 600 dpi

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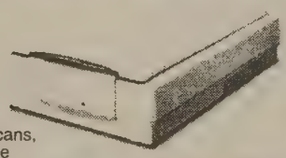
Mustek™ MUSTEK TWAIN SCAN DUO 600 SCANNER



This scanner offers true color input, 24 bit per pixel color scans, capturing 16.78 million colors. High color saturation and the distinctiveness of details give the user a better visual perspective of scanned images. Photographs, artwork, or text are scanned at a true vertical resolution of 600 dpi and a true horizontal resolution of 300dpi. Duo 600 offers 256 true gray scale scanning for black and white images.

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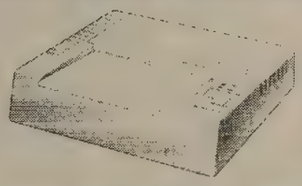

- 600 DPI
- Supports 16 million colors
- 2.5ms per line scanning
- OCR software included
- One year warranty

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Plustek GRAY 600 FULL PAGE SCANNER

- 600 dpi, 256 Grayscale
- Edge feed
- Perfect for use with fax cards and OCR
- Includes Image editing software

#2007483

While supply lasts.

$149

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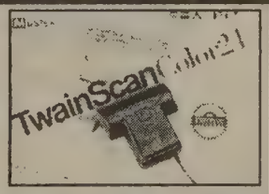

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- Ocron's Perceive Personal OCR
- 1904 Interface Card
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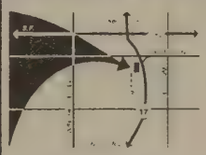

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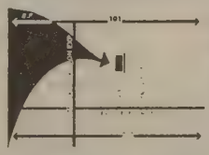

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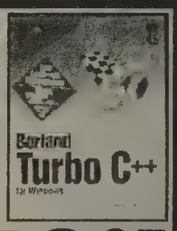

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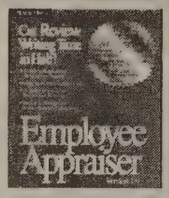

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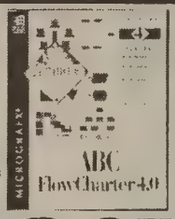

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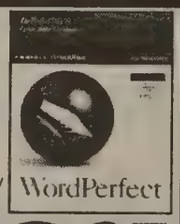

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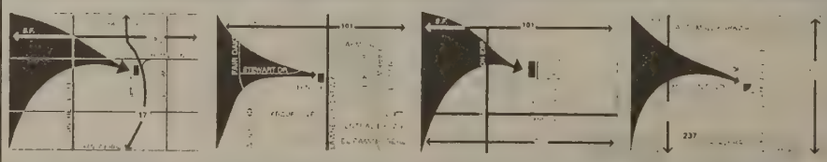

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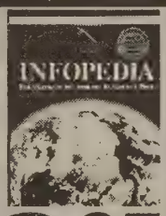

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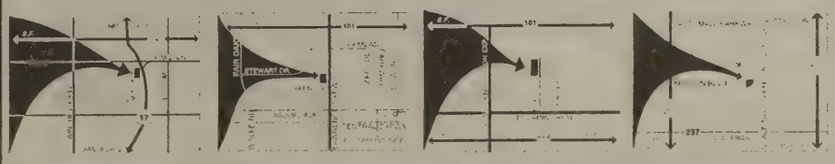

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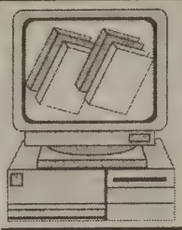

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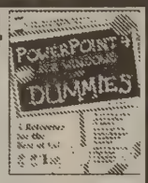

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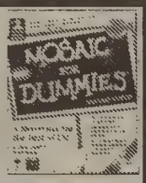

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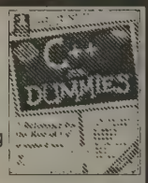

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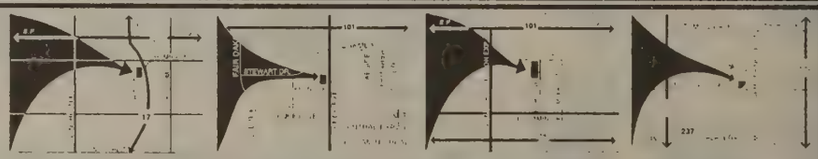

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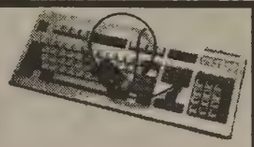

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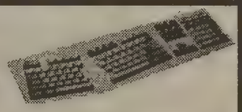

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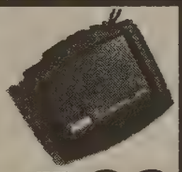

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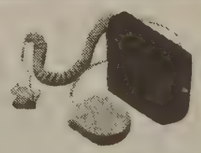

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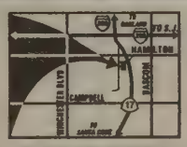

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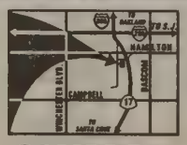

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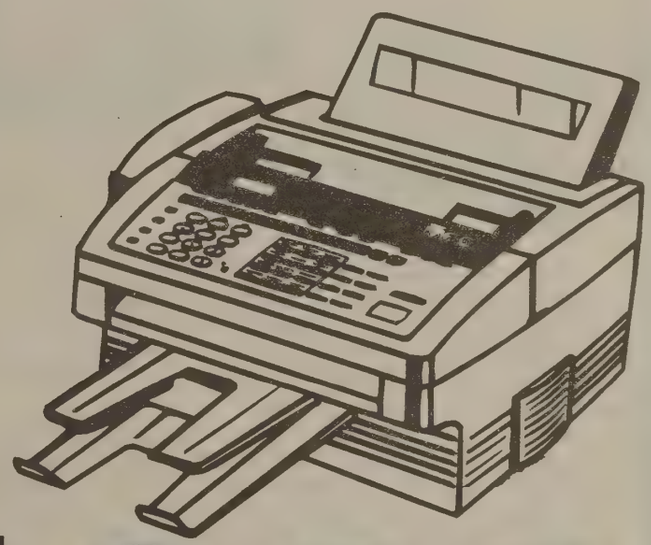

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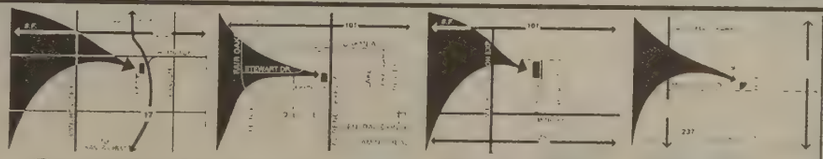

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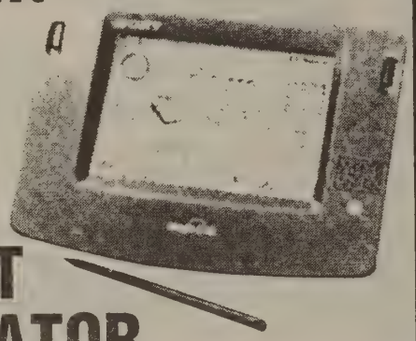

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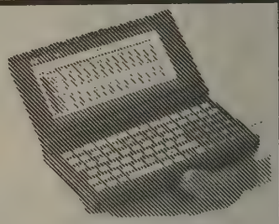

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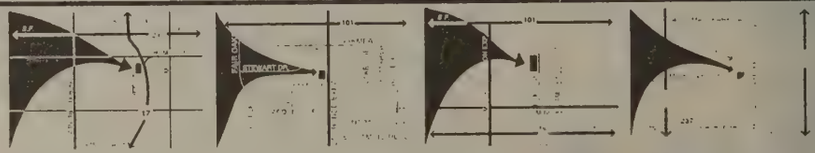

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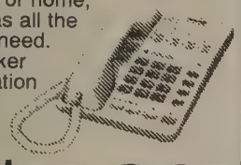

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This outstanding value from Panasonic offers one-touch dialing for up to 28 16-digit telephone numbers, auto redial for up to 15 times, redial memory transfer, and a save button for temporary redial memory storage for only...

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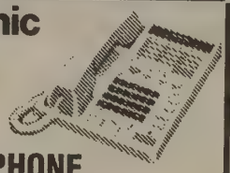
MULTI-LINE PHONES

Panasonic TWO LINE SPEAKERPHONE



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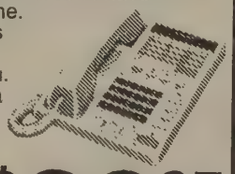

A two line phone doesn't have to cost a fortune. Panasonic has the low cost answer for you. This unit has a convenient auto dialer, conference calling and much more!

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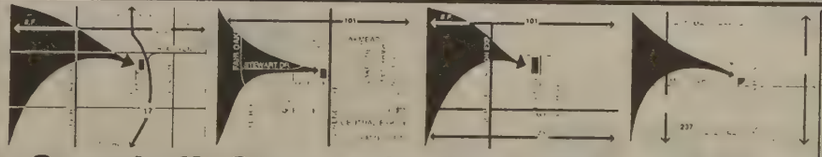

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This ingenious telephone uses dual ringers with distinct ringer sounds and seperate ringer controls for each line! By pressing the conference button you will be able to conduct a three way conversation. An excellent value at only...

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AT&T's popular speakerphone comes equipped with 12 number memory, redial, ringer adjust, mute, flash, and receiver volume control (a helpful feature for those who are hearing impaired or in a noisy environment). Now just..

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With features like hands-free speakerphone, 32 number memory, hold, receiver and speakerphone volume control, last number redial, flash, ringer control, programmable pause, mute, just to name a few, this AT&T speakerphone will be an excellent addition to any home or office at only...

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This fully lined speakerphone comes equipped with three way conference calling, dual ringers, led line-in-use indicator, 32 number memory, busy redail, one-touch redail, and flash function for in office applications or with enhanced telephone company services for only....

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This deluxe four-line speakerphone is capable of handling up to four lines with a maximum of 16 stations. Its convenient 32 number one-touch telephone memory, along with all station page, intercom, call transfer, busy redial, flash and much more make this the perfect addition to any home or office at just....

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ALL DIGITAL ANSWERING MACHINE

Conairs fully digital answering machine allows you to avoid the hassle of constantly rewinding and fast forwarding tapes typically found in answering machines, within seconds you can skip forward of backwards to the message of your choice! Features include tone remote control, ring select, flashing message counter, call screening, auto disconnect, vox, and much more. Now just...

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Model TAD-1200
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With three mailboxes to choose from, members of the household can have messages stored for them in their own mailbox! The all digital capability eliminates the need for moving parts and allows for instant playback of incoming messages-no need to wait for a tape to rewind or fast forward! Other features include voice time/day stamp, two outgoing messages, digital counter, selective message erase and much more for only...

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ALL DIGITAL ANSWERING MACHINE WITH TIME/DAY STAMP

This innovative Sony all digital answering machine features a slim space saving design which allows a phone to be placed on top of it. Other features include variable-speed playback, voice time-day stamp, digital message counter, audible message alert, and more. Now just..

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Panasonic's fully featured answering system comes equipped with 30 minute storage capacity, voice time/day stamp, speakerphone, voice menu, 4 personal mailboxes with security, lcd display, message scan, programmable alarm, message transfer, 2-way record, selective message delete, message skip/repeat, auto disconnect, auto redial, 10 number memory, and much more! An invaluable addition to any home or office at just. .

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uniden

40 CHANNEL 900MHz CORDLESS PHONE

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Model EXP-901
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From VTech a leader in 900MHz cordless phone technology come this feature packed unit with 20 channel selection, a digital voice encryption system, out-of-range indicator, four programmable ringer types, one-way page, 10 number memory, mute, flash, hold, and last number redial all for the incredible price of only....

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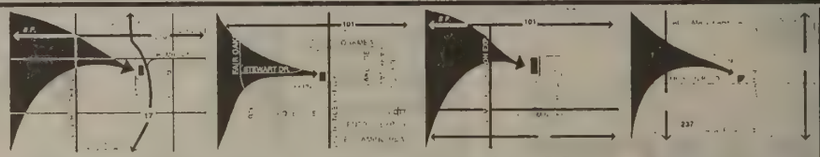

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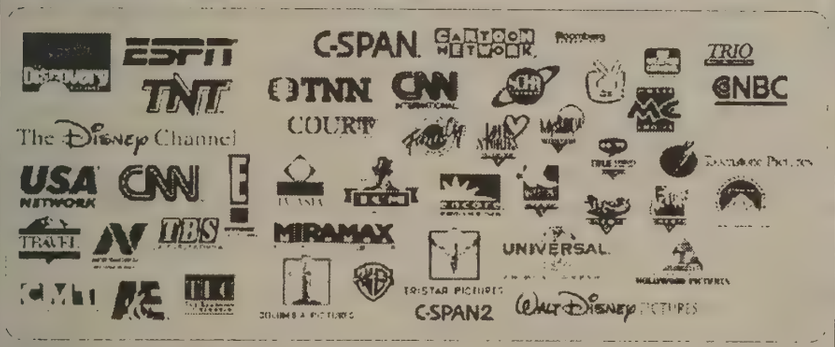

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Enjoy over 150 channels of top-notch entertainment with the crystal, digital clarity of the new RCA DSS system. CD quality sound and over 400 lines of video resolution, provide an incredible entertainment experience. Let Fry's and RCA help you drive on the Information Superhighway!!!

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- 3 CINEMAX CHANNELS AND MORE

RCA ADVANCED DIGITAL SATELLITE SYSTEM (DSS) DISH AND RECEIVER

Enjoy over 150 channels of top-notch entertainment with the crystal, digital clarity of the new RCA DSS system. CD quality sound and over 400 lines of video resolution work together to give an outstanding home theatre experience. This advanced DSS unit will allow you to hook up and additional IRD/ Decoder (Optional purchase) on a second TV.

MODEL DS-2430WR
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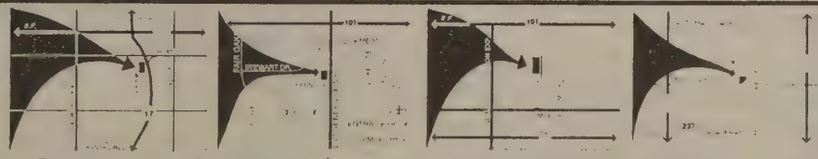

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Exactly. That's one of many very unpleasant scenarios.

So when you talk about information warfare, you're playing with a very dicey weapon.

On the other hand, having said that, Heidi and I are convinced that such weapons will be used by others and that, if only for defensive purposes, we ought to be studying this and be aware of the modes in which it operates.

In *War and Anti-War* we said that militaries would eventually develop knowledge strategies. In our definition therefore, information warfare goes all the way from knocking out the radar to "What is the education system of the country? What kind of R&D is the country doing?" All the soft things that go toward the creation of either security or offensive capability, as the case may be. Countries, I think, will begin to do that—they'll look at the relationship of their education, R&D, brain drains which can be either attracted or indeed reversed. They'll look at intelligence, of course, as all parts of the armamentarium of the infowarrior. That will create a very, very strange world, and in many ways a dangerous world.

Industrial espionage is an old and time-honored practice. Back in the early Industrial Revolution days, the Brits, not the government but an individual, went over to Leghorn in Italy, where they were using, for the time, a very advanced system for making silk fabrics. He literally drew the machines and created a duplicate in England. And in 1704 Peter the Great, I think it was, had spies sent to England to study the steam engine. So this has been going on for a long time, but nothing like what we now face.

My purpose at the conference is to broaden horizons as to the nature of the system the US is now operating in, and to make them think about information pressure points they might not have given a lot of thought to.

One of the possible extensions of what you're saying is that nation-states will cease to exist.

No, I don't agree with that. I think they will continue to exist—they may be big or they may be small; they may be decentralized; they may be federations; they may have other organizational forms. But I don't think they're necessarily going to disappear. On the other hand, they certainly *will* have a reduced salience in the system, because you have all these counterforces springing up around them.

We have to be realistic. Nationalism dies hard. People really feel this very deeply. Moreover, I think we should not be naive globalists. Not everything that is "global" is good. Witness the narco business, which is certainly global. Surely, we don't want to feed those paranoid conspiracy theories that some people in this country seem to harbor, that one world government is going to dominate the United States and the UN is going to take over. The UN can't find its way out of a paper bag.

But aside from that, I think that we want to maintain diverse cultures and national differences, and to have smaller and more manageable units that people can identify with, while at the same time having civilized relationships with the others on the planet. That's hard to do.

Personal computer technology in particular, and a lot of its associated technologies, have had the effect of giving individual people the kinds of tools that formerly only governments and other priesthoods had. These tools allowed them to do what they wanted, and do end-runs around all those hierarchical structures. I'm very much in favor of end-runs around hierarchical structures, but at the same time—that's what gives you Bosnias. That's what gives you Kevin Mitnicks.

Right. And gives you the potential for some things much worse than we've even imagined.

One of the things that all this is enabling is the formation of entities and constituencies and worlds, essentially, that are based on something other than geographical proximity. This makes the geographically based entities very nervous. One classic Second Wave-Third Wave conflict, to me, is the prosecution in Tennessee of a couple running an X-rated BBS in Milpitas because someone in Tennessee could download images that violated local community standards.

Right. It drives 'em crazy.

From what I can see, there's a very serious conflict brewing between law enforcement people, who think they should be able to regulate what you're doing online with somebody in Singapore (and conversely Singaporean authorities thinking they should be able to regulate it also), and the computer people who think that there is something radically different going on, a different entity called "cyberspace."

One of the things that's going on in Washington is that people like FBI Director Louie Freeh are trying to clamp down on the freedom of the online world in a pretty distinctly Second Wave fashion.

But give those guys their due. They face some real-world problems. They really do face some real problems.

I'm not saying they don't have some real problems. I'm saying I think that they're failing to come to grips with the fact that something radically different is going on here.

Yes, they're trying to deal with it using the old tools.

And the same thing is true of intellectual property. We're trying to grope with intellectual property as if it were a physical property of some kind, and that doesn't work very well.

So how do you civilize all that stuff?

I don't know. I think you do it through, on the one hand, a lot of creative ideas coming up, a lot of them being crushed and killed, and some of them surviving in a kind of Darwinian sense, and a lot of conflict. You don't get changes on this scale without conflict.

Those of us who feel some sense of responsibility want to keep that conflict from becoming bloody, to make it a civilized conflict, rather than just a source of violence, which it could easily become.

There are very serious questions. I would include, under America's informational exports, the movies. The violent crap that we're dumping

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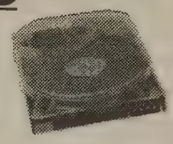

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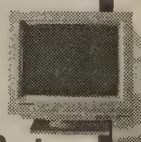

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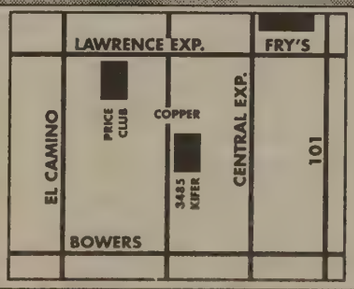

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on the rest of the world does not leave the rest of the world amused.

It's really complicated. You get the French saying, "Well, we've got to have French content." That's a protectionist game, you see right through that one. But what about the world of Islam, and not just Islam, that says, "We don't like your morals. We don't like what you're teaching our kids"? That's a legitimate position for them to hold.

Anybody who looks at American television and American movies with any kind of mature view recognizes that a lot of it is just plain sludge, and meretricious at that. It's not just the violence, it's the violence accompanied by the smirk and the joke.

And the shallowness.

And the shallowness of it all.

So the question then arises—do countries, or do communities, whether it's a country or not, have the right to try to control that? I don't think they *can*—certainly at this stage. There's no way that Lee Kuan Yew can.

They can't prevent the guy with the dish from downloading all kinds of stuff.

Exactly.

Now I believe that all systems, by definition, have limits. All systems have some limitations, and that goes for our libertarian views as well. There's no such thing as absolute liberty possible. That may be our ideal, but you're dealing with people, and conflicting interests.

I think we have to take a balanced view of it. America's great contribution, if anything, has been the First Amendment. That is one of the truly wonderful stunning things in history. We don't want to lose that.

But we have to understand that Louie Freeh has a problem. And so does the NSA, and so does the CIA, and so do all of these agencies. They have serious problems, and those problems are not just bureaucratic internal problems, they're problems for us as a people. The question is, how to accommodate both the need for maximum freedom of expression and the recognition that the next time it won't be a fertilizer bomb in Oklahoma City, it'll be something else, something potentally far more horrible.

I also think that we are moving to a kind of bar-coded world, in which for good or for ill, we'll tag the components of explosives. We may even bar-code people, in effect. And we already have these smart highways that make it possible for people to know exactly where you drove, at what time, and whether you were visiting your mistress when you were supposed to be at the office, and that sort of stuff. All of that is frightening. All of that is the Orwellian side of cyberspace.

But what Orwell didn't suspect was the interactivity. And the fact that there was a gigantic counterforce springing up to confront the state.

I don't expect any neat solutions for many years. Particularly when you get outside the frame of the American Constitution and you're dealing with China, or you're dealing with countries whose values and attitudes are totally different from our own, and maybe legitimately different from our own.

I think there's just going to be a tremendous amount of turbulence about all of this, and, because information is so important to the making of money, to the making of war, to policing, to having a stable society, the battles over information are going to get more and more intense, not less.

How do you see the have/have-not dichotomy?

Heidi and I used to go around and lecture about this twenty or thirty years ago. We talked about the potential for a helot society, and tried to offer an early warning about this potential division into info-rich and info-poor.

On the other hand, I'm somewhat more optimistic now, rather than less. Because I think several things are going to conduce to create what we call ubiquitization or universalization of a lot of this.

First, the costs of technology are going to come down much further. Now it's true, there's always going to be a government or a company that has more money than you or I have, and they'll always have access to something better. But the same dispersal of information power that is happening *vis à vis* the individual and the state is also happening *vis à vis* the individual and the corporation. Control from the top is harder, and the plummeting cost of communication is going to mean that a lot of people are going to have access to it who today do not.

The other positive thing is that it's actually in the self-interest of the corporations to have everybody in the system. It's not a question of corporate power trying to restrict the spread of the system. They have more people to send bills to. They have more people to advertise to. And so on. Nor is there uniform corporate power—they themselves have many different positions, many different needs and policies and competition and so on. It's not as though the corporate world wants to prevent poor people from having computers—I think quite the reverse is true—it is in their interest, both as creators of the technology and as users of the technology, to have it as universal as possible.

I believe that therefore it will be. The question then becomes whether it's relative or absolute. The criticism people made of Gingrich when he said that every poor kid should have a laptop—they said, "Ah yes, but it must be networked!"

Well, then, the next person says it has to have—

Real-time 3-D! Multimedia!

[*laughs*] Exactly! You keep raising the ante.

I think that this stuff is going to become so cheap, and is going to spread so far and fast—the universalization of it is going to get a big push from some of these giant media outfits, most of which I think are going to lose their shirts. But in the process they're going to sell a lot of computers and a lot of networking and bring more and more people into the system.

So in that sense info-rich and info-poor, in the narrow sense of computer access—I think that's going to work itself out, just as the telephone did. In the larger sense of education and the ability to earn a living and jobs, that's a tougher nut to crack. Because it is not in everybody's interest to spend their lives making jobs; it's in their interest to spend their lives making money.

And there, I think in order to even begin to think seriously about that problem, what we're going to have to do is burn our economics textbooks. Our economics textbooks are medieval. I have, next to my desk, a brand-new 1994 economics text for graduate students which still says the factors of production are land, labor, and capital. The world "knowledge" doesn't appear. If we're still publishing graduate economics texts that say that—I'm not in favor of book-burning, but I would send them to some storage bin somewhere.

Recycle This Book!

[*laughs*] Yeah, recycle this book!

We need to really start from scratch. The problem with employment, as we've written

and I'm sure you've heard us say, is that in a Second Wave economy, if you have a million people unemployed, you can stimulate the economy with Keynesian or other macroeconomic manipulations. You can create a million jobs, and you have solved your problem. In a Third Wave economy, you have a million people unemployed, you do the same thing, and you succeed in creating ten million jobs, but these people can't do those jobs. So the problem of unemployment has gone from quantitative to qualitative. It's a question of skill matching.

So that's why the Clinton administration says we need to have retraining. There's several problems with that; one is it overlooks acceleration. By the time you're trained, the skill requirements may be changed again. And secondly, it implies a much better forecasting capability than we have as to what skills will be required.

Indeed, we now know that it isn't just people without skills who are unemployed, it's tens of thousands of rocket scientists with the wrong skills. It's not a question of education or no education, training or no training; you've got to hit a moving target.

That says to me that we're going to be living with structural unemployment for a long time, and that that is going to include large numbers of educated middle-class people who will at least go through a few months of unemployment, and maybe, with luck, some retooling during that time, and maybe, with luck, be able to get back into it.

That will change the politics of unemployment. It's no longer just Those People down in the ghetto or the barrio or the poor part of town who are potential victims of unemployment, but it's us. I think that will force political attention to the problem, and hopefully we'll get some fresh ideas out of it.

My own view is there's no solution to the problem given the current definitions that economists use and the current accounting systems that companies have. That you can't solve the problem within the constraints of the current Second Wave notions of economics.

It's a garbage-in, garbage-out situation.

Yes. You have to know who is really productive in the economy.

And the definition of "productive" isn't what it once was.

Exactly. The economists' definitions of production are hopelessly anachronistic and very, very narrow. Because they start with "the only thing that matters is something that involves an exchange of money," basically.

But we now know that mothers raising kids, how they raise their kids, has a big impact on productivity in the economy.

So you have to redefine all the economic terminology, the categories that we have—what is efficiency, what is productivity? Forget GNP or GDP, and so on. This is going to require an intellectual revolution in economics. I think we're beginning to move in that direction. Nevertheless, governments are still listening to these Merlins, people with supposedly magical skill to manipulate.

One of the first lessons of the new economics, which is true in the old as well but has been radically ignored, is that you can do all the macroeconomic manipulation you want, but people don't live in the macroeconomy, they live in the microeconomy.

Take Latin America. Mexico, Brazil, Argentina, they're all patting themselves on the back for having licked inflation and for having begun to privatize and for having begun to carry out what is in effect the International Monetary Fund formula. And indeed, people are making money—until the Mexican peso collapsed, but leave that aside, even.

The fact is, if you talk to the cab drivers, they're not doing so terrifically. You talk to the ordinary people, they're not doing so terrifically. We've had that experience for many, many years.

One of the reasons for our misestimating what's happening in these places is we pay too much attention to the macroeconomy and not enough to the microeconomy. This is why a lot of investors got stuck in Mexico, and why they will get stuck in other countries, because they read the same *Wall Street Journal* articles, they read the same financial information, drawn from a set of Newtonian models, and they think that's an economy.

Heidi and I believe that if you want to understand an economy, you've got to understand culture. You've got to understand social institutions. You've got to understand politics. You've got to understand a lot of things other than how the money is flowing through the system.

So I think the next major intellectual revolution has to be in economics. That will make a great many people very unhappy.

What are the winners going to look like?

My hunch? They'll have short lives. [*laughs*] Just because everything is more ephemeral.

Like the computer business—the people who were the gods ten years ago are mostly gone.

Right. And I think that is, in fact, a consequence of acceleration. You live in an accelerated environment, that's the nature of the game.

I can't tell you what technology or what business is going to succeed, but I think it's important for people to understand that the Third Wave is not just happening in the United States, nor is it just happening in Singapore and Japan and these newly industrialized countries. Cells or little implantations of Third Wave technology and Third Wave people are popping up in the strangest parts of the world, from Brazil to Bangalore. We're buying software from India, and India is buying software from Vietnam.

On the one hand, complacence on the part of the United States and Japan and other countries is going to do them in. And on the other hand, the obsolete kind of third-worldism that we saw in the '70s and '80s, the south-against-the-north rhetoric, is going to hurt the poor countries, to the degree that they're still thinking along those lines.

I think we're going to see amazing technological breakthroughs, which I cannot forecast, popping up in the most amazing places.

What should the smart little country be doing right now?

I'm going to make a cynical statement. The smartest thing a small country can do is get rid of its peasants. That's exactly why Singapore is Singapore.

Singapore never had to deal with a First Wave population. When Malayia was broken up in the early '60s, Singapore may have felt that it was being cheated of population at the time. But the best thing that ever happened to it was it didn't have to deal with an impoverished First Wave peasantry.

I'm being cynical and being facetious about it, but the fact of the matter is that countries saddled with large First Wave peasant populations,especially if those peasants are uneducated, obviously have the worst drag on the system. Those countries that have an at least rea-

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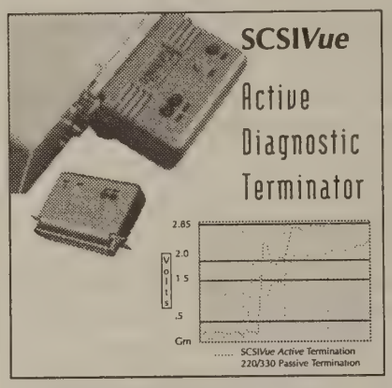

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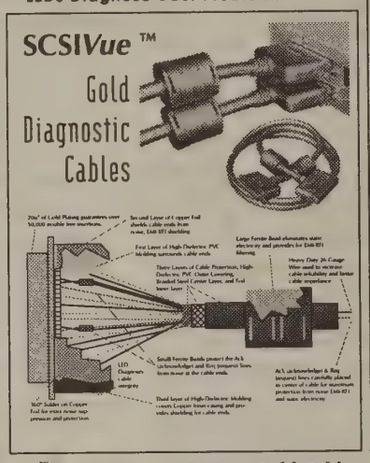

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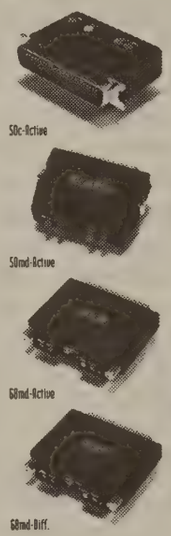

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sonably educated population have a better chance, if we still think in terms of countries.

What if we think in terms of Microsoft, which is bigger than countries? I'm just using that as an example, but you could say Apple, or Hewlett-Packard...

Well, let's say AT&T, because that's the case I know something about.

In 1965 we coined the concept "Future Shock," and talked about the need for long-range planning. As a response to that, in about 1968 we got a call from a very high official of AT&T, then headquartered on lower Broadway in Manhattan. I went in to see him, and he said, "I'd like you to come and do some work for AT&T." I said, "What?"

He said, "We've had the same corporate mission for over fifty years—put the same black telephone in every American home. We did it. Since the '50s we've been putting green phones and pink phones and white phones in. But now we've got these things called satellites and computers and stuff, and what should our mission be for the future?"

I said, "Why are you asking me? I don't know anything about the Bell systems and the telecommunications industry."

He said, "That's okay, spend three or four years studying this."

I said, "What's my mission?"

He offered the most platinum-plated consulting assignment I suppose anybody's ever got—he said, "Make a movie. Write a book. Give a report to the board. Write magazine articles. You decide!"

[*laughter*] What a deal! Especially if you're starving at the time, as we were, not yet having published *Future Shock*.

So while writing *Future Shock* we spent three or four years studying the Bell system, interviewing everybody from the chairman on down to engineers and employees. Went to Bell Labs and so on, and then in 1972 delivered a book-length report in six copies to the board of directors.

What it said was, "You're going to have to break up the Bell system."

How many years before Judge Green?

A little over ten years.

"You're going to have to break up the Bell system. But you don't have to break it up the way the government wanted you to"—because the government wanted to break them up ever since the late '40s. The government's position was, "We want to separate manufacturing from the rest. We want you to divest Western Electric. We believe Western Electric is charging you too much for the telephones it's making, giving you the opportunity to jack up your rate base when you go in for a negotiated increase."

This was why the government was after AT&T for all these years.

What we said was, "No, you have to break it up, but not that way. Here's your new mission. The old mission was universal service, all communications for anybody who needs it. Well, we now live in a world in which nobody can provide that. Your new mission should be only those communications services that nobody else can provide."

If you then applied that as a criterion to the company at that time, what you would have left—MCI was still a very small speck on the horizon, Sprint didn't exist—that meant you kept long lines, you kept Bell Labs, you kept the high-tech ends of Western Electric. Anybody could stamp out telephones—let somebody else do that.

We didn't have quite the guts to say, "Get rid of the operating compa-

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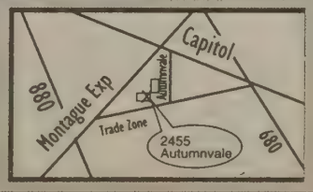

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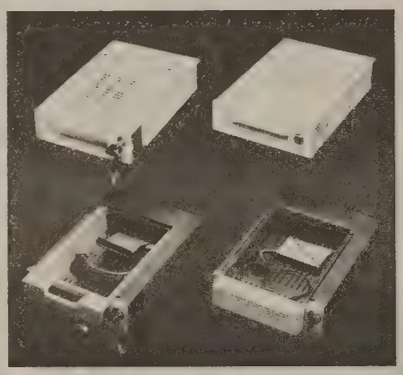

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nies," but we did say, "You don't need to own them 100%. Own them 20% or some other percentage, but there's no reason you have to completely own and operate the RBOCs. They'd operate better separately, and you could use that capital to do better things with."

And if you put the system back together again today as though it were a single company, it would be a $170 billion corporation.

That's my answer to Microsoft, or to any of the mega-mega giants, that at some point it's going to be more sensible to break up in some way, shape, or form. Maybe you form a corporation which is a kind of federation.

In the book we did based on our report to AT&T—called *The Adaptive Corporation*— we use the term "constellation." We said AT&T should run a university for its suppliers. AT&T should contract out everything it possibly could.

A good example at that time—we were just coming out of the 1968 riot in the ghettos, and you could not send an AT&T truck into the ghetto without the danger of somebody getting hurt. We said, "Why shouldn't installation be owned by a thousand small companies, including black-owned companies in the ghettos?"

So that was what we said in the report. The day we sent it in, a chill descended on our relationship with AT&T. [*laughs*] It was as though they had cut off our phone service. The check came in the mail, and that was it. No presentation to the board!

And in fact what happened was a wonderful story. They locked the six copies up, literally under lock and key, and even if you were the president of an RBOC you couldn't get to see it. I think maybe because they were afraid of Uncle Sam seeing it, although no one ever said that to me. So you couldn't lay your hands on a copy—except for one thing.

I had great admiration for the people there. They were very smart, very technically terrific, and believe it or not, they had a certain service ethic. They really did believe they were doing something for the country and it was really important. I had a lot of admiration for them, but I used to tease them mercilessly and say, "You guys are organized like a Soviet ministry."

And as in the Soviet Union, *samizdat* copies of our report began to circulate. [*laughter*]

And then one night three years later Heidi and I were in Florida, and I had to give a speech to the board of directors of the then Kraft Food Company. Who should be on the board, but John DeButts, who was the chairman of AT&T. As we walked in to dinner, he put his arm around Heidi and said, "That's a wonderful report."

We knew the Politburo had met and the party line had changed!

Relations warmed after that, and when the company was actually broken up, we asked permission of them to publish the report. They were kind enough to say "Go ahead," and so we published *The Adaptive Corporation*, which used that report with some updating material.

We thought "nobody will really be interested in this monograph," but this monograph has since been published in virtually every country in the world, every Ministry of Post and Telecommunications knows this book. It won the Golden Key award in China! [*laughs*]

So again, I'm not pointing this gun at Microsoft; I confess I don't know about the internal life of Microsoft; I haven't spent four years studying it. So I don't know. But just as a starting assumption, there's a point of scale and complexity at which an organization just becomes, as we all know, loggy and less creative and slower to react and so on.

If they can figure out a way to avoid that, more power to them. ■

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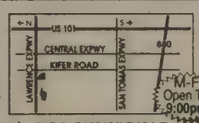

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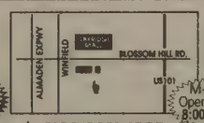

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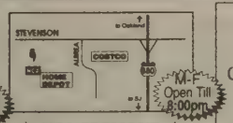

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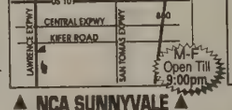

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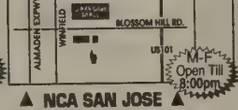

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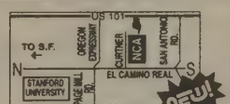

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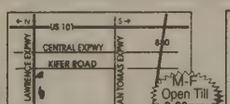

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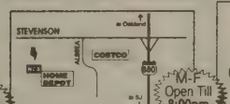

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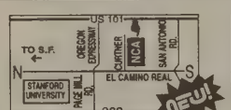

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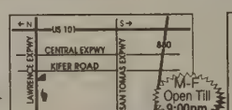

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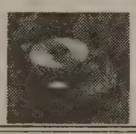

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See Page 8

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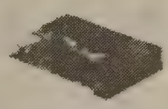

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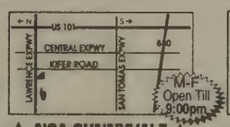

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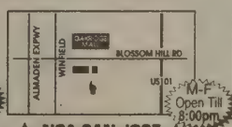

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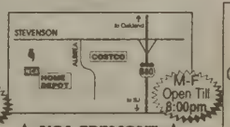

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256MB SCSI	QM20256DYS	12ms	2.5"	$249.95
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850MB FastATA-2	QM30850TRA	4500	14ms	3.5"X1"	$235.95
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4.3GB	XP34300S	7200	8.5ms	3.5"	$1529.95	$1639.95

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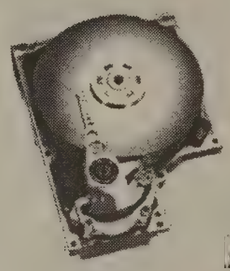
- 5 year warranty



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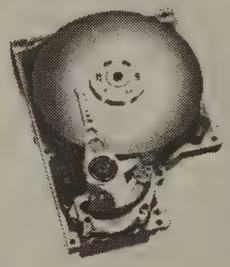
- Fast SCSI-II
- 500,000MTBF
- 5 year warranty



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850MB	ST5850A	256K	11ms	3.5"X1"	$239.95
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SCSI

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
1.05GB	ST31230N		9ms	3.5"X1"	$507.95	$617.95
1.05GB	ST31230W		9ms	3.5"X1"	$629.95	$739.95
2.1GB	ST32430N		9ms	3.5"	$872.95	$982.95
2.1GB	ST32550N	7200	8ms	3.5"X1"	$995.95	$1105.95
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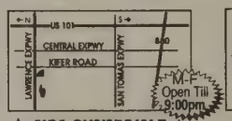

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- 5.25"
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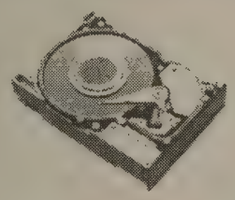

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- 5 year warranty

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1.75GB	MC2217AV		Audio/Video		$849.95	$959.95
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3.0GB	MC1936AV		Audio/Video		$849.95	$1049.95
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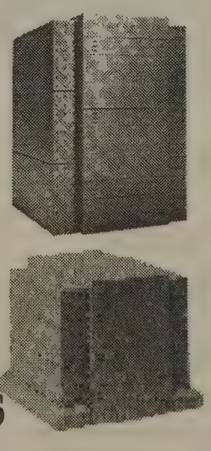

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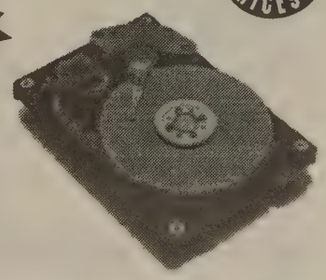

$455.95

IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRICE
530MB	M2684TAU	256K	12ms	3.5"x1"	$178.95

SCSI

CAPACITY	M/N	CACHE	SEEK	SIZE	Internal	External
530MB	M2684SAU	256K	12ms	3.5"x1"	$205.95	$315.95
1.0GB	M1606		10ms	3.5"X1"	$455.95	$565.95

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- 8.9ms Seek Time
- 6400RPM
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- 5-Yr. Warr.

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- HP C2490SE
- 8.5ms Seek Time
- 500K MTBF
- 6400RPM
- 57 Mbits/s Trans. Rate
- Up to 10Megabytes/s (synchronous)
- 5-Yr. Warr.

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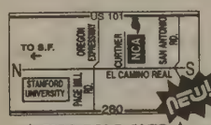

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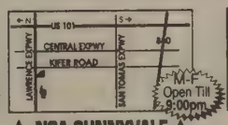

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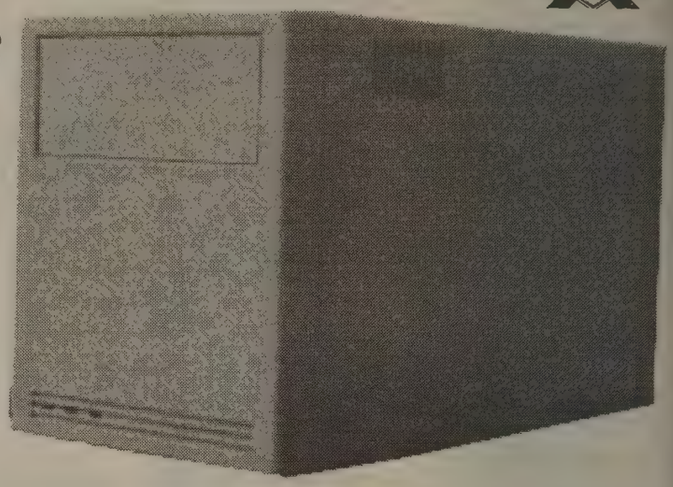

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530Mb	Fujitsu	12ms	2Yr	$315.95
540Mb	Quantum Fireball	11ms	2Yr	$328.95
540Mb	Quantum Lightening	11ms	2Yr	$320.95
730Mb	Quantum Lightening	11ms	2Yr	$353.95
728Mb	IBM	12ms	2Yr	$359.95
850Mb	Quantum Trailblazer	14ms	2Yr	$367.95
1.0Gb	Quantum Fireball	11ms	2Yr	$475.95
1.0Gb	Conner	<10ms	5Yr	$529.95
1.0Gb	Conner	FAST WIDE	5Yr	$605.95
1.0Gb	IBM	10.5ms	5Yr	$619.95
1.0Gb	Fujitsu	10ms	3Yr	$565.95
1.05Gb	HP 3323SE	10.5ms	5Yr	$625.95
1.05Gb	Seagate	9ms	5Yr	$617.95
1.05Gb	Seagate-FW	9ms	5Yr	$739.95
1.2Gb	HP3724S	9.5ms	5Yr	$655.95
1.75Gb	Micropolis	10ms	5Yr	$869.95
2.0Gb	Micropolis	8.5ms	5Yr	$1075.95
2.1Gb	Quantum XP32150S	8.5ms	5Yr	$989.95
2.1Gb	IBM	8.5ms	5Yr	$1305.95
2.14Gb	Conner	8.5ms	5400rpm	$939.95
2.14Gb	Conner	8.5ms	7200rpm	$1009.95
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2.1Gb	Seagate 32550N	9ms	5Yr	$1105.95
2.1Gb	HP3725S	8.9ms	5Yr	$1055.95
2.1Gb	HPC2490SE	8.9ms	5Yr	$1085.95
2.2Gb	Quantum VP32210S	8.5ms	5Yr	$919.95
4.0Gb	Micropolis	8.5ms	5Yr	$1435.95
4.2Gb	Conner	8.5ms	7200rpm	$1309.95
4.2Gb	Quantum XP34301	8.5ms	7200rpm	$1259.95
4.3Gb	Seagate 15230N	9ms	5Yr	$1239.95
4.3Gb	Seagate 15150N	8ms	5Yr	$1529.95
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EXTERNAL FH FIXED SCSI DISK DRIVES

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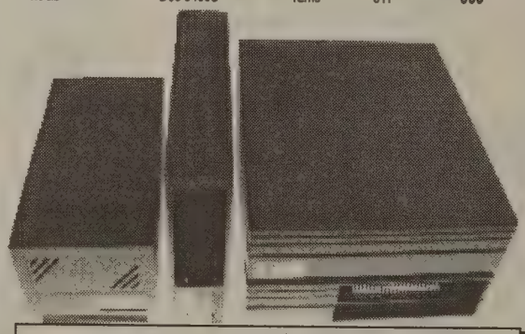
3.0Gb	Micropolis 1936	11ms	5Yr	$1039.95
4.3Gb	IBM	8.5ms	5Yr	$1859.95
9.0Gb	Seagate	11.5ms	5Yr	$3089.95
9.1Gb	Micropolis 1991	10ms	5Yr	$2409.95
4.0Gb	Dec 5400S	12ms	5Yr	$999.95



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250Mb	Connor Viper	2150S	1/4"	$379.95
525Mb	Conner Viper	2525S	1/4"	$555.95
525Mb	WangTek	E5525S	1/4"	$515.95
1.3Gb	Connor Viper	2750	1/4"	$897.95
1.5Gb	Exabyte	FS1G		$739.95
2.5Gb	Exabyte	EXB8205	8mm	$1389.95
5.0Gb	Exabyte	EXB8505	8mm	$2098.95
2.0Gb	HP	35470	4mm	$864.95
2.0Gb	Connor Python	4320NT	4mm	$933.95
2.0Gb	WangDat	3100	4mm	$829.95
4.0Gb	Connor Python	4324	4mm	$933.95
5.0Gb	Exabyte	EXB4200C	4mm	$899.95
2-4.0Gb	HP	35480	4mm	$947.95
4-8.0Gb	WangDat	3200	4mm	$869.95
4-8.0Gb	WangDat	3400Dx	4mm	$1088.95
4-8.0Gb	HP	C1533A	4mm	$1117.95

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SIZE	MODEL	SEEK	TRANSFER	PRICE
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TOSHIBA	5301B	150ms	600Kb	$409.95
NEC	3Xp	240ms	450kb	$375.95
NEC	4Xe	220ms	600kb	$469.95
Plextor	SIX-Speed	**NEW**	900kb	$629.95
Plextor	Quad-Speed 1MB CACHE		600kb	$485.95
Plextor	Quad-Speed 256 CACHE		600kb	$419.95
PIONEER	604X (6 disk changer)	300ms	612Kb	$788.95
PIONEER	1804 (18 disk changer)	300ms	614Kb	$1778.95
Backpack	DOUBLE-SPEED	250ms	300kb	$297.95
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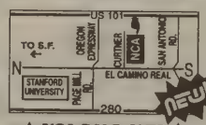

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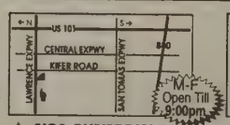

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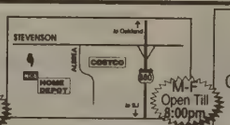

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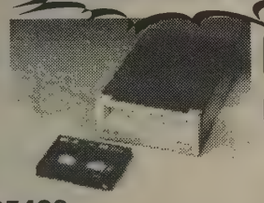

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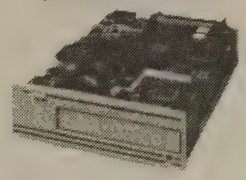

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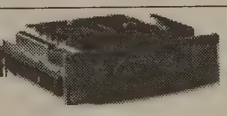

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350MB	DJ30 JUMBO350	$149.95
680MB	DJ25 JUMBO700	$242.95
800MB	T-1000	$225.95
1.4GB	DJ50 JUMBO1400 w/CONTROLLER	$347.95

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CAPACITY	MODEL	INTERNAL	EXTERNAL
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CAPACITY	MODEL	INTERNAL	EXTERNAL
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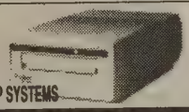
PARALLEL PRINTER PORT EXTERNAL TAPE BACK-UP SYSTEMS



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680MB	TRAKKER 700	$379.95

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2.0GB	PT-25	$919.95	$1025.95
4.0GB	PT-50	$1111.95	$1234.95

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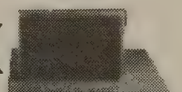

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CAPACITY	MODEL	INTERNAL	EXTERNAL
250MB	5150S	$305.95	$405.95
525MB	5525S	$475.95	$515.95

CONNER TAPE•STOR TAPE BACKUP

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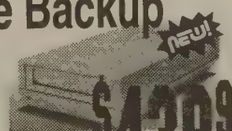

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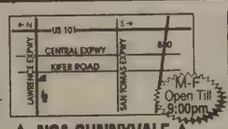

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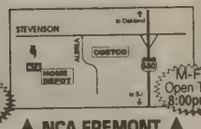

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REMOVABLES
OPTICALS

HEWLETT PACKARD

1.3GB Multifunction Rewritable & WORM Drive
- HP C1716T
- SCSI-2 1.3GB

INTERNAL **$1955.95**

EXTERNAL C2550 WITH CARTRIDGE **$2419.95**

EXTERNAL.....$2145.95

1.3GB Cartridge.....$99.95

IBM

NEW!

IMAGESTAR FAMILY

230MB, INTERNAL BASIC MAGNEDO REMOVABLE 3.5" .$559.95

230MB INTERNAL KIT MAGNEDO REMOVABLE 3.5" $659.95

230MB EXTERNAL MAGNEDO REMOVABLE 3.5" $689.95

1.3GB INTERNAL MO 5.25" REMOVABLE HH (SINGLE) $1739.95

1.3GB EXTERNAL MO 5.25" REMOVABLE FH (SINGLE)..... $2075.95

FLOPPY DRIVES

TEAC
- 1.44MB 3.5" $37.95
- 1.2MB 5.25" $45.95
- 1.2/1.44MB Dual Drive $91.95

MITSUMI
- 1.44MB 3.5" $29.95
- 1.2MB 5.25" $39.95

With bracket on any floppy drive, add $6

Maxoptix™

PC OR MAC

Multifunction Magento-Optical Disk Drive for 1-Gbyte and 650-Mbyte Rewritable and WORM Disk Cartridges, With up to 4-Mbytes Read/Write cache

1GB CART. glass/poly $179

- Unlimited Data Storage
- External SCSI Subsystem
- One Year Factory Warranty
- 25-Year Life Of Glass Media
- Embedded SCSI/SCSI-2
- Data Transfer of up to 13.2Mbits/Sec.
- Ultimate Back-up For NOVELL (Ready-to-boot Backup)

TAHITI 4 - Multifunction
- 1MB Read/Write Cache
- 5.25" / 1.3GB Optical

$1759.95 NEW!

External Optical-1MB Cache....$1949.95

TAHITI 4 - Multifunction
- 4MB Read/Write Cache
- 5.25" / 1.3GB Optical

$1939.95 NEW!

External Optical-4MB Cache....$2129.95

FUJITSU

NEW!

230MB Rewritable, Removable Optical SCSI Drives

External SCSI 230MB, 3.5" Rewritable Optical
- External optical drive
- Using 2512 internal
- Includes 1 cartridge
- Fast seek time
- 3600RPM
- 256K Cache
- Software for MAC(free upon request)

$695.95

Internal 230MB, 3.5" Rewritable Optical

- Bare optical drive
- 2512
- Low Profile, Only 1"
- 3600RPM
- 256K Cache
- Fast Seek Time

NEW! **$555.95**

REMOVABLES

SyQuest

88MB SYQUEST REMOVABLE

External 88MB Drive
- 88MB Cartridge
- Cables
- Reads & Write Both 44 & 88 MB
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$375.95

Internal Bare Drive $259.95

105MB 3.5" SYQUEST REMOVABLE

External SCSI 105MB Drive
- 14ms Seek Time
- 105MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$375.95

Internal SCSI Bare Drive $235.95

Internal IDE Bare Drive $179.95

200MB SYQUEST REMOVABLE

External 200MB Drive
- 200MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$497.95

Internal SCSI Bare Drive $358.95

270MB SYQUEST REMOVABLE

External SCSI Drive
- External 270MB 3.5" SCSI Removable Cartridge Drive
- Unlimited Storage Capacity
- 270MB External Drive
- Cables & Software for MAC
- 13.5ms Seek Time
- Includes one cartridge

$468.95

Internal Bare IDE Drive $333.95

Internal Bare SCSI Drive $338.95

SYQUEST MEDIA

CAPACITY	SINGLE	5-PACK
44MB Cartridge (5.25")	$46.95	$225.95
88MB Cartridge (5.25")	$52.95	$255.95
105MB Cartridge (3.5")	$57.95	$275.95
200MB Cartridge (5.25")	$79.95	$389.95
270MB Cartridge (3.5")	$63.95	$310.95

PINNACLE MICRO

COMPACT disc — Recordable Compact Disc

RECORDABLE CD DRIVES

- RCD 1000 - MAC $1689.95
- RCD 1000 - PC ..... NEW! $1689.95
- RCD 1000PC20 .....$1849.95
- RCD74 - Recordable media - 74 min $24.95

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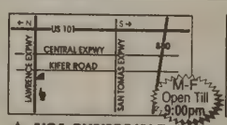

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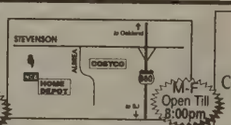

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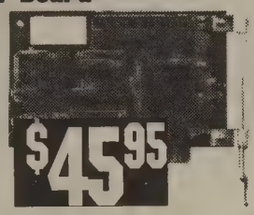
CONTROLLER CARDS

GSI Enhanced IDE Accelerator Boards

GSI Model 11
8-Bit Four-Floppy & QIC-80 Tape Accelerator Board

- High-speed 1MB/sec. floppy interface (up to four floppy drives)
- Doubles the speed of 250MB (QIC-80) tape drives
- Fully supports 2.88MB floppy disk drives
- Supports "Media-Sensing" compatibilites of 2.88MB floppies
- Co-resides with other disk controller boards
- Perfect floppy or tape upgrade board



$45.95

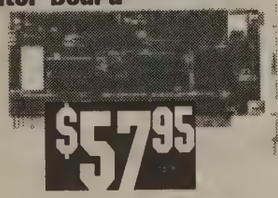
GSI Model 18
16- Primary or Secondary IDE Accelerator Board

- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports two IDE drives
- Increases IDE hard drive data transfer rates up to 80%!
- Supports new high-capacity IDE hard drives
- Compatible with Windows, Novell NetWare, DOS & OS/2
- Tested and recommended by Micropolis, Fujitsu, Maxtor, Seagate, Western Digital, Quantum and Conner

$37.95

GSI Model 21
16-Bit IDE, Floppy & QIC-80 Tape Accelerator Board

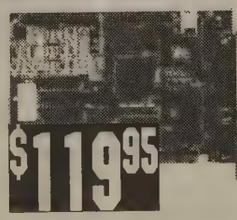
- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to two IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- High speed 1MB/sec. floppy interface(up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Fully supports 2.88MB floppy disk drives
- Compatible with Windows, Novell NetWare, DOS & OS/2



$57.95

GSI Model 32
16-Bit Multi-Port IDE, Floppy, Tape, & I/O Accelerator Board

- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to two IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- High speed 1MB/sec. floppy interface(up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Dual 16550 UART serial ports & one bi-directional parallel port
- Compatible with Windows, Novell NetWare, DOS & OS/2



$119.95

GSI Model 4C
16-Bit Four-Channel, Eight-IDE Accelerator Board

- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports up to eight IDE drives
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- No drivers needed
- Perfect for Novell mirroring or duplexing
- Compatible with Windows, Novell NetWare, DOS & OS/2

$124.95

adaptec

CardPark™
NEW!

Dual-slot ISA-to-PCMCIA Card Adapter for Desktop PCs

- AVA 4510 ISA-to-PCMCIA adapter
- Dual-slot, accepts two PCMCIA cards, hot-swap operation
- Type IV slot supports Types I, II, & III cards up to 15mm thick
- Compatible with SRAM, Flash, & ATA-Flash, Fax/modem, LAN, SCSI, Sound, GPS, and mass storage PCMCIA cards
- Includes CardPark software

$177.95

SCSI AudioMachine™

Experience the benefits of full SCSI with intergrated advanced audio.

- Features the AMM-1570 host adapter with full SCSI audio
- Includes full SCSI boot capability for high-capacity, high-performance drives
- Supports high-capacity removable SCSI devices
- Increases CD-ROM performance capabilitites with XA-Audio
- Ease of use provided by Adaptec EZ-SCSI™ & EZ-Audio™ intelligent installation software

$247.95

TotalCD™

16-Bit SCSI-2 host adapter for CD-ROM connectivity

- AVA 1505 ISA-to-SCSI-2 host adapter
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer

$55.95

TotalConnect™

16-Bit host adapter for multiple SCSI-2 peripheral connectivity

- AVA 1515 ISA-to-SCSI host adapter with BIOS
- Connect up to 7 SCSI devices
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer

$85.95

TotalAdvantage™VL

Complete 32-bit VL-to-Fast SCSI & VL-to-EIDE host adapter

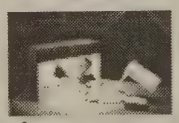
- AVA-2825 VL-to-Fast SCSI & VL-to-EIDE (enhanced IDE)
- Connect up to 7 SCSI devices
- Up to 2 standard or enhanced IDE devices
- Up to 2 standard and 1 floppy tape drive
- Adaptec EZ-SCSI lite software
- Up to 5MB/sec. synchronous on SCSI bus
- Advanced SCSI programming interface compliant, disconnect reconnect, synchronous & asychronous data transfer

$155.95

SlimSCSI-II™ NEW RELEASE!
NEW!

Instant connection for portables to new peripherals, power & flexibility using the PCMCIA

- APA-1460 SlimSCSI-II host adapter
- Compatible with PCMCIA type II, type III & Toshiba type IV slots
- Fast 2MB/sec data transfer rate
- Convenient detachable 3-foot cable with reversible connector
- Low 0.5 watt power consumption for longer battery life
- Includes software for CD-ROM's, Phot CD's, SCSI hard drives, HP scanners, Magneto-optical, Syquest, Bernoulli, Floptical & SCSI tape drives.



$195.95

MiniSCSI™Plus & EPP Adapters

A fast, easy way to connect SCSI devices to your portable or desktop PC's parallel port

- APA-348 MiniSCSI Plus & APA-358 MiniSCSI EPP
- Simple external plug-in, perfect for notebooks
- Convenient, intergrated 3-foot cable
- Complete software for easy installation and full SCSI peripheral device support
- Simultaneous use of parallel port with 100% transparent pass through
- MiniSCSI EPP model supports up to 1MB/sec. when used with enhanced parallel port.

SlimSCSI™EPP APA-358 $155.95
SlimSCSI™Plus APA-348 $119.95

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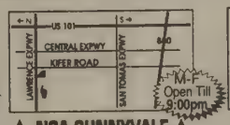

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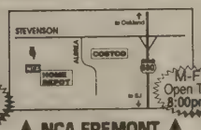

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CONTROLLERS

SCSI CONTROLLERS

adaptec

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
AHA-1460	Slim SCSI PCMCIA SCSI Card	$195.95
1505	TOTAL CD 16-BIT SCSI-II	$55.95
1515	Total Connect ISA to SCSI host adapter w/ BIOS	$85.95
1522	16-BIT 7HD/2FD KIT	$135.95
1542CF	BUS MASTER COMPLETE KIT	$235.95
1640	MICROCHANNEL FOR PS/2, 7HD	$233.95
2742/W	Fast Wide SCSI EISA	$347.95/$375.95
2825VL	TOTAL ADVANTAGE VL	$155.95
2842A	Fast SCSI-II VESA	$255.95
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$278.95
AHA-2940W	PCI FAST-WIDE SCSI	$347.95
APA-348	SlimSCSI PLUS	$119.95
APA-358	SlimSCSI EPP	$155.95
EZ-SCSI	SOFTWARE	$65.95
AVA-4510	Card Park Dual Slot ISA to PCMCIA adapter	$177.95
AVA-1570	SCSI Audio Machine-full SCSI w/integrated audio	$247.95
3940	Twin Channel PCI	$405.95
3940W	Twin Channel PCI wide	$477.95
3985	PCI RAID Adapter w/ 3RISC Processors	$734.95

SEE PAGE 11 FOR NEW ADAPTEC PRODUCTS!

Acculogic

SCSI CONTROLLERS

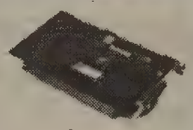
MODEL	DESCRIPTION	PRICE
20	PCI SCSI Host Adapter, Sup. Wide SCSI-3	$219.95
40	PCI SCSI Host Adapter, Corel SCSI Wide SCSI-3	$269.95

PROMISE TECHNOLOGY, INC.

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-440	VLB SCSI-2 BUS MASTER w/IDE Interface	$184.95

glogic Corp.



FAST!SCSI EISA FL
Host Adapter Card for the EISA Bus
- Patented 400 Series high-speed SCSI processor
- CorelSCSI for CD-ROM & HDD included FREE
- Uses a single 32-bit EISA slot
- Comprehensive software support
- 50-Pin internal SCSI cable with support for 3 devices provided
- Floppy connector supports 2 floppy drives
- Supports up to 7 SCSI devices

$199.95

Host Adapter Card for the PCMCIA Bus $164.95
Host Adapter Card for the VESA Local Bus FL $189.95
Host Adapter Card for the ISA Bus FL $115.95

FAST!SCSI PCI Basic
Host Adapter Card for the PCI Bus
- High speed, single-chip SCSI processor
- Uses a single PCI slot
- SCAM level 2 upgrade
- Supports Fast SCSI-2 (10MB/sec.)
- Comprehensive software support
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high density external connector
- 50-pin internal connector including ribbon cable with support for 3 internal devices
- Supports up to 7 SCSI devices

$119.95

FAST!SCSI IQ PCI Wide
Host Adapter Card for the PCI Bus
- Bus Master
- Uses a single PCI slot
- Fast(10MB/sec.) & Wide(20MB/sec)SCSI cabability
- High speed ISP1020 12 MIPS RISC SCSI processor
- Supports up to 15 SCSI devices

$295.95

FAST!SCSI IQ PCI-10
Host Adapter Card for the PCIA Bus
- 12 MIPS RISC SCSI processor
- Over 4000 512-byte block I/Os p.s.
- Uses a single PCI slot
- Supports Fast SCSI-2 (10MB/sec.)
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high-density internal connector, including ribbon cable with support for 3 internal devices

$205.95

BUSLOGIC

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT545C	ISA Bus Master Fast SCSI Adapter Kit	$208.95
KT445C	Bus Master Fast SCSI Kit for VL Bus	$195.95
KT742A	EISA Bus Master SCSI-II Adapter Kit	$278.95
KT747C	EISA Bus Master Fast SCSI	$298.95
KT757C	FASTWIDE SCSI Card	$348.95
KT946C	Bus Master Fast SCSI for PCI Local Bus	$254.95
KT956C	WIDE PCI Card	$307.95

DTC DATA TECHNOLOGY

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DTC3130B	PCI 32-Bit PCI SCSI Bus Master w/Bios	$119.95
DTC3274VL	SCSI-II Bus Mastering	$179.95

IDE CONTROLLERS

TekRam — Enhanced IDE PCI

MODEL	DESCRIPTION	PRICE
	Enhanced IDE PCI controller w/I/O	$39.95

IDE CONTROLLERS

NCA'S STANDARD IDE

IDE CONTROLLERS

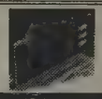
MODEL	DESCRIPTION	PRICE
211	2HD/2FD W/16550, 1PAR, 1GAME	$25.95
223EH	2HD/2FD for VESA LOCAL BUS 16550 I/O	$44.95

BUSLOGIC

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT510A	IDE Cache Contoller For PC/AT Sys.	$89.95
KT410A	IDE Cache Controller for VLB	$119.95
KT910A	IDE PCI Cache Controller	$165.95

PROMISE TECHNOLOGY, INC.



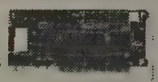
IDE CACHING CONTROLLERS

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-200	ISA IDE 4HD/2FD 2.88MB Floppy support.	$87.95
DC-420VLB	VESA IDE 512K Cache	$95.95
DC-4030-VL-2	VESA IDE 2.88MB support 4HD/2FD	$105.95
DC-200M	ISA IDE 512K Cache 4HD/2FD 2.88 Support	$91.95
DC2032	ISA Caching controller	$12.95
DC-2300+	E-IDE w/16550 IO	$59.95
EIDE *MAX*	16-bit enhanced IDE controller	$28.95

gsi™

Intelligent Accelerator/IDE Boards



IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
GSI 11	8-Bit 4FD/Tape Accelerator Board	$45.95
GSI 18	16-Bit 2 IDE Devices	$37.95
GSI 21	16-Bit 2FD/Tape Backup	$57.95
GSI 32	16-Bit Multi Port IDE/Tape & I/O	$119.95
GSI 4C	16-Bit 8-IDE Devices	$124.95

DTC DATA TECHNOLOGY

IDE CONTROLLERS

DTC 2278d	VESA Multi I/O 2s/1p/1g Enhanced IDE	$24.95
DTC 2278E	VLB Enhaced IDE, Enhanced Parallel: Serial Port	$38.95
DTC 2278EB	VLB Enhaced IDE, Enhanced Parallel: Serial Port w/Bios	$42.95
DTC 2278D+	Enhanced IDE Multi-Functional I/O	$33.95

WONDER 16550 IDE CARD — ISA

2 IDE DRIVES/4 FLOPPY
2 HIGH SPEED 16550 SERIAL PORTS + 1 SERIAL
1 PARALLEL PORT / 1 GAME & 1 BI DIRECTIONAL PARALLEL PORT

$69.95

16650 I/O Controller..... $27.95

PORT-FOLIO 16550

13-Port Super I/O Card

4 INTEGRATED NS16550 HIGH SPEED UARTs

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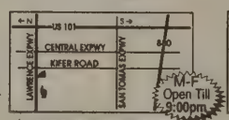

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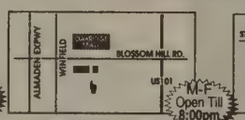

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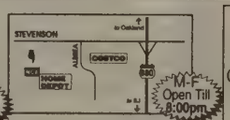

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MultiSpin 2Vi
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- 320ms access time
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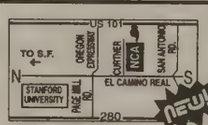

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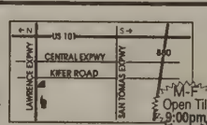

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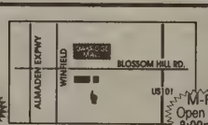

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YAMAHA POWERED MONITOR SPEAKERS

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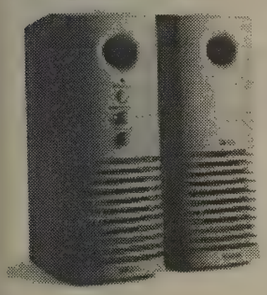
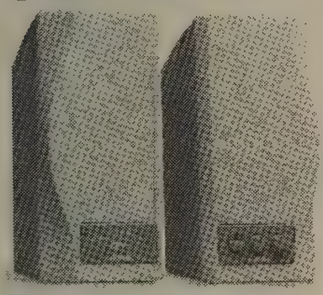


- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

$39.95

YST-M10



- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

$79

YAMAHA POWERED SUBWOOFER

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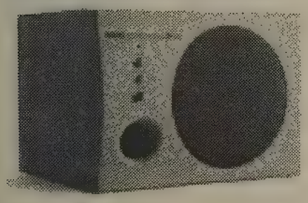
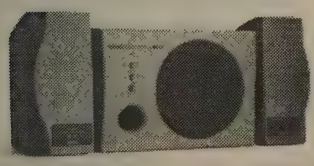


- 25 Watts
- Video shielded
- Auto On/Off Switching
- Active Servo technology delivers Life-like sound
- 35Hz-250KHz ±10db

$169.95

YST-SS1010



YST-M10 SPEAKERS:
- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

YST-MSW10 SUBWOOFER:
- 25 Watts
- Video Shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-Like sound
- 35Hz-250KHz ± 10dB

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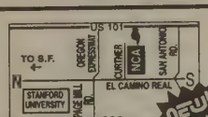

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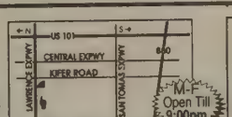

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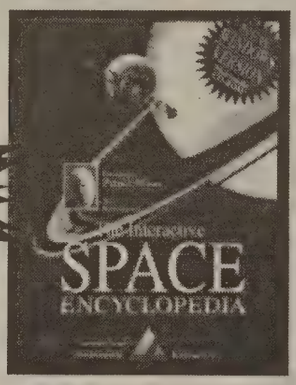

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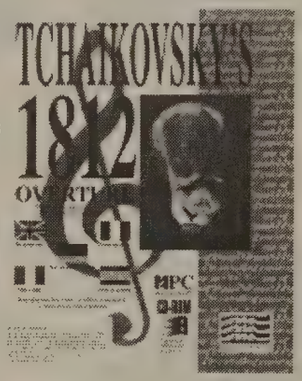

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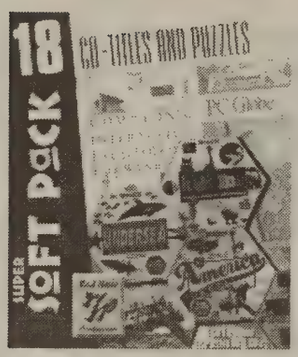

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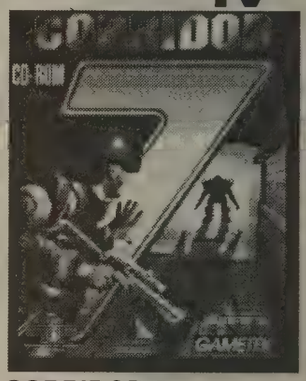

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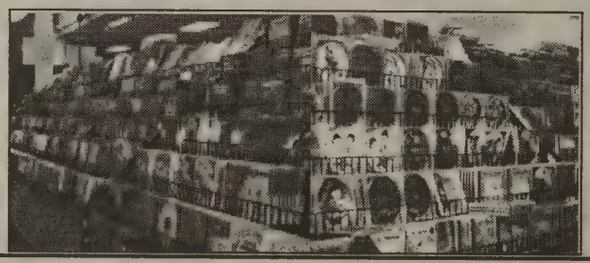

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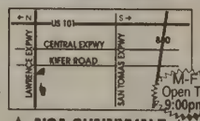

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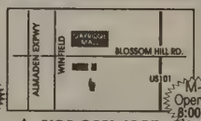

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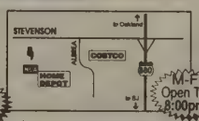

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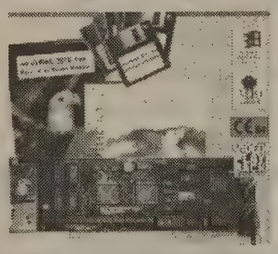

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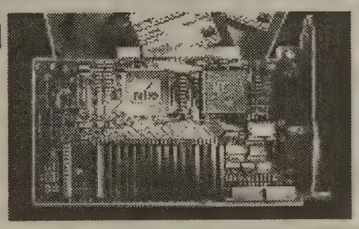

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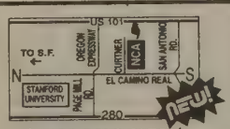

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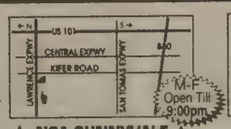

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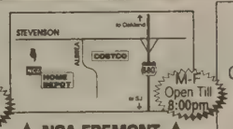

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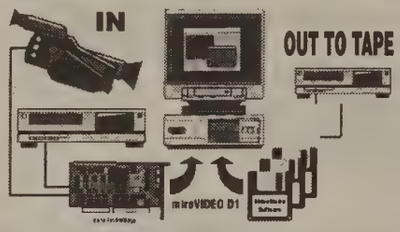

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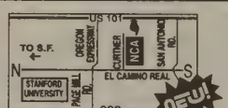

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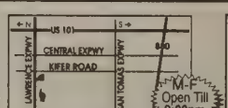

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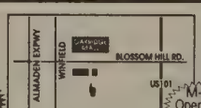

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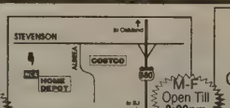

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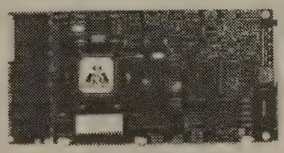

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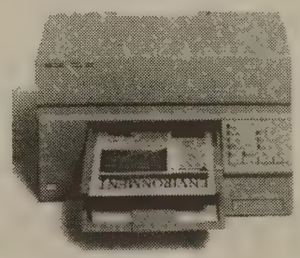

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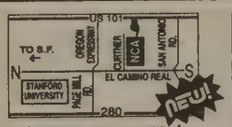

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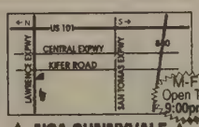

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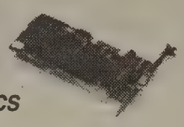
S601E Pro	Stingray VLB 1MB DRAM	$99.95
S801	Stingray PCI 1MB DRAM	$104.95
S901V	Stingray 1MB DRAM PCI	$104.95
S1201V	Stingray Video 64 1MB DRAM PCI	$149.95
S1202V	Stingray Video 64 2MB DRAM PCI	$197.95

SPiDER® Graphics, Inc.

COMPLETE LINE OF PRODUCTS AVAILABLE

MATROX MGA POWER GRAPHICS



HIGH-PERFORMANCE GRAPHICS ACCELERATOR

Revolutionary 64-Bit Architecture - DynaView 2D & 3D - Refresh Rate Up To 80Hz.

Impression Plus Upgrade 2MB VRAM	$210.95
Impression Plus 2MB PCI	$359.95
Impression Plus A/2MB ISA	$419.95
Impression Plus P12/220 PCI 220 Mghtz Ram Deck	$455.95
Impression Plus A/220 ISA 220 Mghtz Ram Deck	$488.95
Impression Lite PCI 2	$299.95
Impression Lite VLB 2	$299.95
MILLENIUM PCI 2MB	$339.95

Number Nine Computer Corporation

Excellence in PC Graphics

9GXe 64 Breakthrough Graphics Accelerator

9GXe 64 PCI or VLB 1MB/2MB	$169.95/$237.95
9GXe 64 Pro PCI or VLB 2MB/4MB	$339.95/$499.95

9FX Motion 771 / 531 Graphics Accelerators

9FX Motion 771 PCI or VLB 2MB/4MB	$289.95/$439.95
9FX Motion 531 PCI or VLB 1MB/2MB	$178.95/$222.95

9FX Vision 330 VLB OR PCI BUS

64-Bit Power Accelerator

- Resolution exchange
- True hardware zoom
- Place windows
- Stop Box
- Instant status
- ColorPerfect
- Monitor adjustment
- Energy Star

NEW!

1MB..... $139.95

2MB..... $189.95

IMAGINE 128 GRAPHICS ACCELERATOR

PCI BUS 4MB VRAM

- NEW performance standard with 128-bit acceleration
- 4MB high speed VRAM
- Drawing bandwidth up to 500 million pixels per second
- Two memory windows for simultaneous host and imagine 128 access
- 65,536 colors (16BPP) up to a resolution of 1600x1200 pixels 16.8 million colors (32BPP) up to 1152X864 pixels
- Refresh rates up to 100Hz
- Simultaneous processing of sixteen 8-bit, eight 16-bit or four 32-bit pixels

$839.95

9GXe64Pro 1600 Powerhouse

9GXePro 1600	2MB PCI 1600x1200	$545.95
9GXePro 1600	2MB VLB 1600x1200	$545.95
9GXePro 1600	4MB PCI 1600x1200	$639.95
9GX2Pro 1600	4MB VLB 1600x1200	$639.95

ATI TECHNOLOGIES INC.

WIN TURBO 64-BIT, *Windows Accelerator*

2MB VRAM, 16.7 million colors, 1280x1024, Full Acceleration up to 16.7 million colors, Flicker free to 100Hz, Winswitch instant mode switching — ISA, PCI or VLB — $275.95

GRAPHICS EXPRESSION, *Windows Accelerator*

2MB DRAM, 16.7 million colors, 1280x1024, Multimedia video accelerator, multiple Bus support, 75Hz refresh — ISA, PCI or VLB — $199.95

1MB DRAM..... $149.95

GRAPHICS WONDER, *Windows Accelerator*

1MB DRAM, up to 16.7 million colors, up to 1280x1024, 76Hz flicker free display — ISA or VLB — $119.95

GRAPHICS PRO TURBO 64

VRAM, Fast 64-Bit acceleration, Windows mode switching, enhanced Windows operation, flicker free refresh.

2MB VLB/PCI/ISA..... $329.95

4MB VLB/PCI/ISA..... $459.95

Jazz Multimedia Jakarta MPEG Video

Graphics Accelerator

NEW!

- Dramatically accelerates all Multimedia CD's including games & MPC titles
- 2MB window accelerator
- 24-bit, 16.7 million colors
- Plays full motion, full screen MPEG Video CDs with CD quality sounds
- Available in PCI or VLB

$379.95

Projector Card..... $109.95

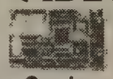
Port of Entry Card..... $139.95

Jakarta
- World-class graphics accelerator
- Video for Windows & Quicktime acceleration
- Hardware MPEG video & audio playback

Port of Entry
- Cable-ready TV tuner
- Composite & S-Video & capture
- Simple software-controlled input selection for games, TV & video

Projector
- See & hear it all on your TV!
- Record it to your VHS, Beta or Hi-8 videotape
- Composite, S-Video & audio outputs

SVGA VIDEO CARDS



SVGA 256K Video Card	$29.95
SVGA 512K 1024X768	$39.95
SVGA 1024K 1024X768	$59.95
SVGA VESA Local Bus	$69.95
SVGA PCI 1024x768	$79.95

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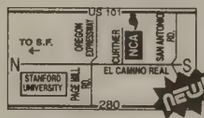

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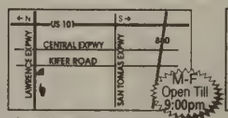

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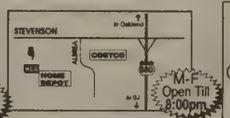

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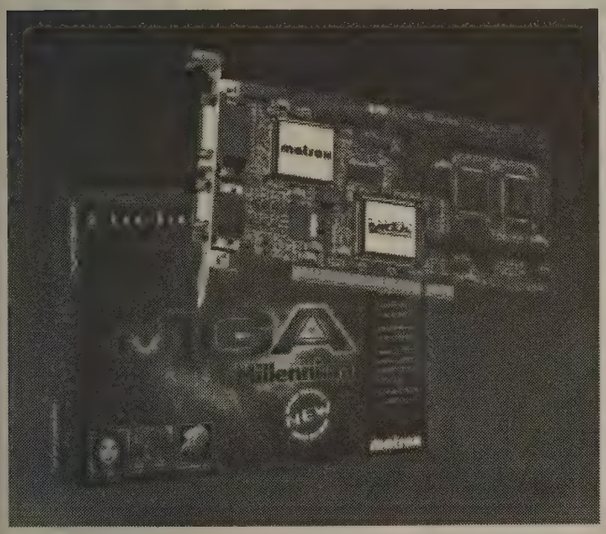
matrox MATROX MGA™ POWER GRAPHICS

Introducing the MGA Millennium: The new dimension in graphics acceleration

NEW!

Fast acceleration for graphics, video and 3D at a low cost



- World's highest performance at 61 million Winmarks
- MGA 64-bit graphics processor (MGA-2064W)
- Dual ported Window RAM (WRAM) memory technology
- Optimized PCI local bus design
- Accelerated true color, video, 3D and DOS performance
- Resolutions up to 1600x1200in 256, 65K, 16.7M colors
- 120 Hz flicker-free screen refresh at 1024x768
- Up to 220Mhz DAC for 85Hz refresh at 1600x1200
- Base versions available with 2 or 4MB WRAM
- Upgradable to 4 or 8MB WRAM

2MB PCI version $339.95

Impression Plus - 2MB VRAM upgrade	$210.95
Impression Plus - 2MB PCI	$359.95
Impression Plus - A/2MB ISA	$419.95
Impression Plus - P12/220 PCI 220Mhz RAM deck	$455.95
Impression Plus - A/220 ISA 220Mhz RAM deck	$488.95
Impression Lite - PCI 2MB	$299.95
Impression Lite - VLB 2MB	$299.95

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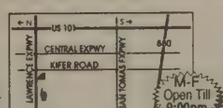

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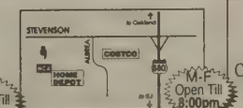

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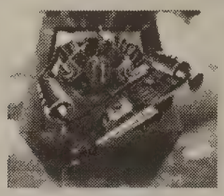
HIGH QUALITY COMPUTER PRODUCTS

SPiDER® Graphics, Inc.

SPiDER Windows Accelerators 16.7 Million Colors



TARANTULA LITE PCI/VLB

GRAPHICS ACCELERATOR

- Screen refresh rates up to 75Hz
- High resolution up to 1280x1024
- High color up to 16M-32BPP
- Display memory expandable to 2MB DRAM
- Spider Web: Windows Tools software

1MB DRAM **$92.95** 2MB DRAM **$144.95**

TARANTULA 64 VLB/PCI

NEXT GENERATION 64-BIT GRAPHICS

- 32-Bit True Color Palette DAC
- Up to 1600X1200 in 64K Colors
- True Color at 1024X768 N/I
- Energy Saving Green PC
- Virtual Screen, Resolution & Refresh on-the-fly

2MB VRAM **$239.95** 4MB VRAM **$365.95**

SPiDER 256 CACHE

A Breakthrough in video Technology: Video Caching!

- 128KB Video Cache (exp. 256KB)
- 32-Bit VESA VL-Bus
- Hardware Cursor & Line Drawing, BitBlt
- 1MB of Display memory (exp. 2MB)
- 16 Million Colors
- Up to 1280X1024 in 256 colors
- Refresh Rate up to 75Hz (NI)
- Virtual Screen, Adjust Screen and Refresh Rate Check

1MB DRAM w/128C **$104.95** 2MB DRAM w/256C **$149.95**

SPiDER 64VLB/PCI

64-Bit Video Accelerator Card

- 64-Bit video memory interface
- 64-Bit BitBlt
- 16 Million Color in 32-Bit/Pixel format
- 1024X768 in 16 Million Colors ; 1280X1024 in 64K Colors
- High Refresh Rate: up to 75Hz (NI)
- Display memory Expandable up to 4MB
- Virtual Screen, Adjust Screen and Refresh Rate Check
- Bus available: VESA VL-Bus and PCI

2MB DRAM **$159.95** 4MB DRAM **$249.95**

SPiDER 32VLB

1MB DRAM/2MB DRAM ..... $79.95/$127.95

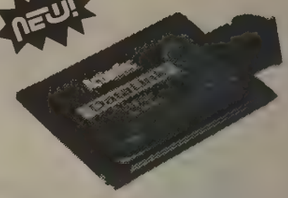
SPiDER 32VLB Plus

1MB DRAM/2MB DRAM ..... $89.95/$137.95

ActionTec

Technology in Motion

NEW!



PCMCIA Cards

ActionTec products feature 100% guaranteed system compatibility, automatic installation and industry leading performance. For unparalleled value, the company includes from $200 to $600 in free software from leading suppliers such as Borland, Traveling Software, Spry, Microsoft, Corel and many more. ActionTec products come standard with the following features:

- Guaranteed system compatibility
- True Plug & Play capability
- 5-year warranty
- Low power consumption
- Auto install
- Value-add software

DataLink 14.4bps Fax, Modem, DataLink 28.8bps (V.34) Fax Modem

ActionTec's high performance fax modems give you worldwide fax and modem capabilities. ActionTec's simple to use fax modems require no external power and feature innovative power management that automatically power down the fax modems when not in use, saving valuable battery life on portable computers. All ActionTec modems ship with Q Modem PRO, fax and data communications software, along with free-value-add software to enhance the products performance and connectivity.

Free Value-Add Software:

- Traveling software's **LapLink for Windows**-Remote Access and File Synchronization software-**A $199 value!**
- **Mosaic** by SPRY-Internet Software-**A $49 value!**
- **SideKick** by Borland-Personal Organization Software-**A $99 value!**
- **Compuserve, Prodigy, America On-Line and Genie-On-Line Services-A $200 value!**

14.4 BPS **$139.95** 28.8BPS **$299.95**

FastNet High Performance Ethernet Adapter

ActionTec's FastNet Ethernet Adapter allows you to connect your portable computer to your network at the office or at home with ease. Just insert your ActionTek Ethernet card into your PCMCIA slot and plug into a RJ45 connection to download and transfer files on your network. The ActionTek connector system allows you ro connect to a 10Base-T and a 10Base2 network environment. The FastNet ships with all the software and components necessary to get you up and running fast, plus free value-add software.

Free Value-Add Software:

- Traveling software's **LapLink for Windows**-Remote Access and File Synchronization software-**A $199 value!**
- **Mosaic** by SPRY-Internet Software-**A $49 value!**

$129.95

ComNet 14.4 and 28.8 Fax Modem/Ethernet Combination Card

ActionTec's ComNet Fax modem and Ethernet combo adapters give you the highest level of performance, ease of use and value available. The ComNet combines fax, datacomm and ethernet on a single PC card and is available in two versions, the 14.4 combo and a 28.8 combo. The ComNet cards ship with all the software and components necessary to fax, send data and log on to a network, plus we include value-add software

Free Value-Add Software:

- Traveling software's **LapLink for Windows**-Remote Access and File Synchronization software-**A $199 value!**
- **Mosaic** by SPRY-Internet Software-**A $49 value!**
- **SideKick** by Borland-Personal Organization Software-**A $99 value!**
- **Compuserve, Prodigy, America On-Line and Genie-On-Line Services-A $200 value!**

14.4 BPS **$384.95** 28.8BPS **$454.95**

Action SCSI-PCMCIA SCSI-II Adapter

ActionTec's PCMCIA SCSI-II adapter is a great way to add an external hard drive, CD-ROM, tape backup and many other SCSI devices to your portable computer. Hook up to 7 devices to your portable computer! And, for easy connection to any peripheral device, the Action SCSI comes with both a centronics and a high density SCSI-II connector. The Action SCSI ships with all the software and components necessary to get you up and running fast!

Free Value-Add Software:

- **Multimedia CD-ROM's and games-A $149 value!**
- **Corel Office Companion-A $600 value!**

$169.95

Corel Office Companion

The best CD to complete your office suite

Business Graphics
CorelFLOW™ 2
Business runs on information and to stay ahead, you need CorelFLOW, an effective way to organize and communicate your ideas.

Web Browser & Fax
Corel Web Mosaic™
Corel Web Mossaic enables you to access a wealth of information from the Internet World Wide Web. CorelFAX allows you to communicate your ideas with broadcast faxing.

Personal Manager
Corel PLANNER™
Corel PLANNER is a Personal Information Manager in an easy to use book format which makes tracking contacts, to do's, activities, appointments, notes, goal and expenses...effortless!

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500 TrueType Fonts
Lets you preview fonts, assemble font groups, install and de-install TrueType fonts on the fly!

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Corel BOOKCASE is the authortative source for reference information. It's like having a complete reference library on your CD-ROM.

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Includes:
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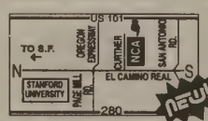

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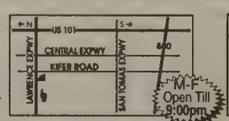

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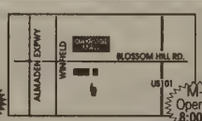

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State of the Art

ViewSonic-15GA
•15" RGB color monitor w/built in stereo multimedia speakers
•1280X1024
•Non-Interlaced
•TCO compliant
•.27dpi

$518.95

ViewSonic-V15 1024 x 768 .28, 76Hz $422.95
ViewSonic-15ES 1024 x 768 .28 ..... $364.95
ViewSonic-15GS 1280 x 1024 .27, TCO, OVC $437.95

ViewSonic-17GA
•17" RGB color monitor built in multimedia stereo speakers
•1280x1024 .27dpi
•Non-Interlaced
•Flat Screen

$875.95

ViewSonic-17 1600x1024, 50-160Hz $858.95
ViewSonic-17GS 1280x1024, .27, TCO, 50-160Hz $785.95

ViewSonic-20PS
•20" RGB Color Monitor
•1600x1280, .28dpi
•Non-Interlaced
•Dual Page Display

$1478.95

ViewSonic-20G 1600x1280, digital controls, DQ-DAF Gun $1318.95

ViewSonic-21PS
•21" Color Monitor
•1600X1280
•.25dpi
•Non-Interlaced

$1759.95

HITACHI®

SuperScan™Pro15s
• 15" SVGA, Non-interlaced
• 1280x1024, .28dpi
• Flat Screen
• CM1587

$385.95

SuperScan™CM1711
• 17" SVGA Non-Interlaced
• 1600x1200, .26dpi
• Flat Screen
• 3 year warranty

$889.95

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•20" SVGA Non-Interlaced
•1600x1280,
•Flat Screen
•CM2096

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Engineered in Europe for the World
Workstation & CAD Quality Monitors

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•MicroEmission

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14" SVGA MONITOR
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•.28dpi
•1024x768
•Energy Star Compliant

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15" SVGA MONITOR
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•.28dpi
•1280x1024
•Energy Star Compliant

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GREEN MONITORS!

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MITAC
Affordable Quality Monitors

17" SVGA
•1600x1280
•.26dpi
•Non-interlaced
•"The Green Monitor"
•Low Radiation

L1764PD

$659.95

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F2-17ex 17" .26dpi 1600x1200 66Hz TCO $1015.95
T2-17ts Diamond Trinitron, 1280x1024, 25dpi $1075.95
T217-17" Trinitron Tube, N/I 1280x1024, .25dpi $1335.95
T220 20" Trinitron Tube, N/I 1600x1280, .25dpi $1985.95
T760iw 21" 1280X1024, .31dpi $1967.95

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DIGITAL CONTROLS

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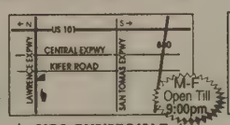

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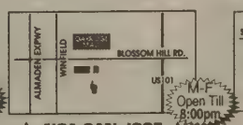

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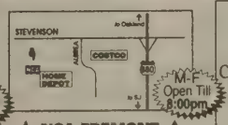

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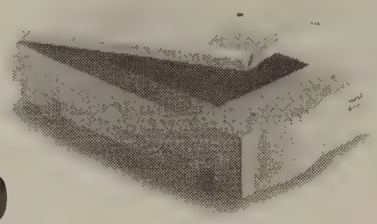

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Your Affordable High Performance Color Scanner

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- Maxsoft's Wordlinx 2.0
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The New Low-Cost, High Speed Single-Pass Scanner

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- Optional UTA

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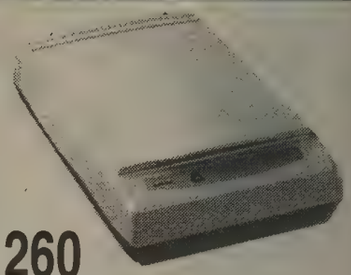

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High Resolution Color Scanner

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- Optional ADF and UTA

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- Kai's Power Tools SE
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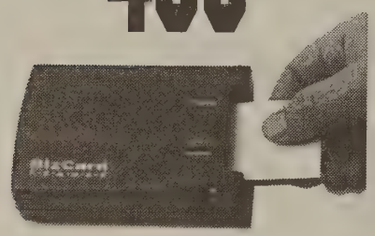

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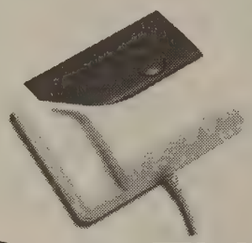

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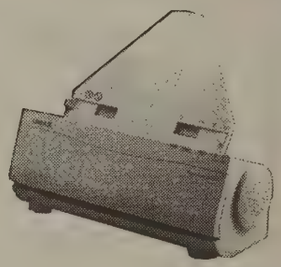

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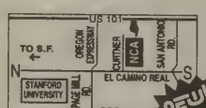

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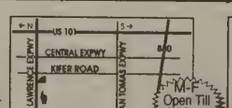

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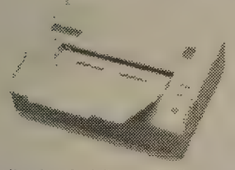

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- 24-bit processing
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- Software included:
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- TWAIN compatible
- No AC power required
- 24-bit processing
- Access to 16.8 million colors
- Single pass scanning
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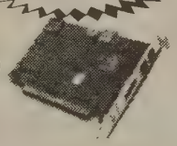

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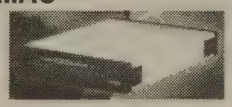

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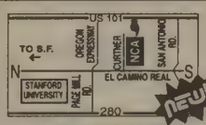

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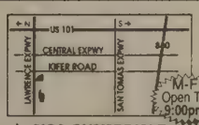

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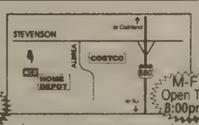

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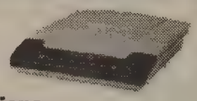

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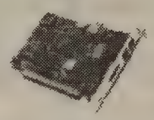

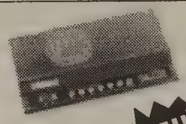

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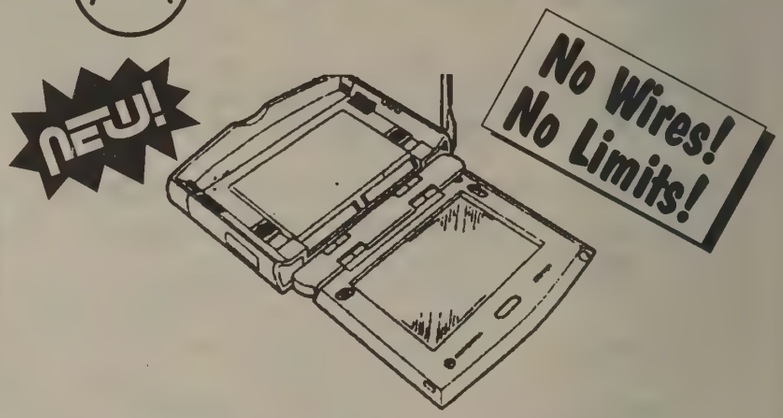

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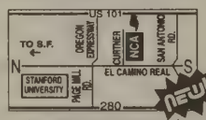

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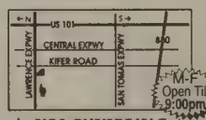

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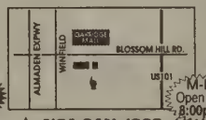

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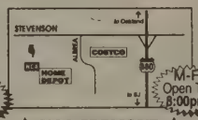

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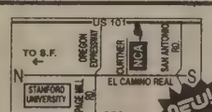

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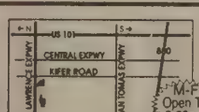

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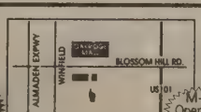

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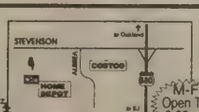

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Nothing To Hide?

How To Get Your Friends On Board For Private Communications

By Robert Moskowitz

I am the first to admit it. I wasn't brought up to live a "private" life in the modern sense. Sure, I'm relatively quiet about my private life, about my finances, my most audacious plans, and my innermost hopes and dreams. But I don't have bug-sweepers on my phone lines, bodyguards, metal detectors, offshore trusts holding my assets, or security lights and cameras guarding the periphery of my family compound. In fact, I don't even have a family compound.

So at this point, it's still taking a certain conscious effort for me to take the specific actions needed to maintain the privacy of my computerized information.

But I have begun to recognize that there are significant dangers, if I don't. For example, in the last few months, I found out that Kevin Mitnick had my credit card number in his stolen list of twenty thousand such numbers. I also received a telephone call explaining that my cellular phone had been cloned and within a twenty-four-hour period used to run up a pretty hefty bill on worldwide calls. I even had my newly replaced credit card number captured when the police rounded up a bad guy on an unrelated charge. And that's just the last few months.

In the face of this, I have begun to recognize the importance of keeping some of my ideas, my messages, and my account numbers away from prying eyes. But that brings me—and you, if you're moving in the same direction—to a practical problem. To ensure your own privacy, at least with regard to computerized files and electronic messaging, you must get the people with whom you're exchanging information to do the same.

This generally involves a two-step process: First, convince these other people of the need to keep their files—at least those they exchange with you—private; and second, take care of the technical matters of obtaining and learning to use the same software that you're using. Here's a brief guide to take you through these steps:

Step One: Why Worry About Privacy

It doesn't take much investigation to discover that most computerized communications are wide open to third parties who want to know more about you. Just as the FBI can and does go through trash to help monitor and catch suspected criminals, as yet unspecified government agencies certainly can go through the Internet's electronic mail to see who's talking about what, and to whom.

In fact, electronic mail is a whole lot less secure than paper-based mail, if only because computers can scan millions of electronic missives far easier and more completely than people can read what you mail within sealed envelopes.

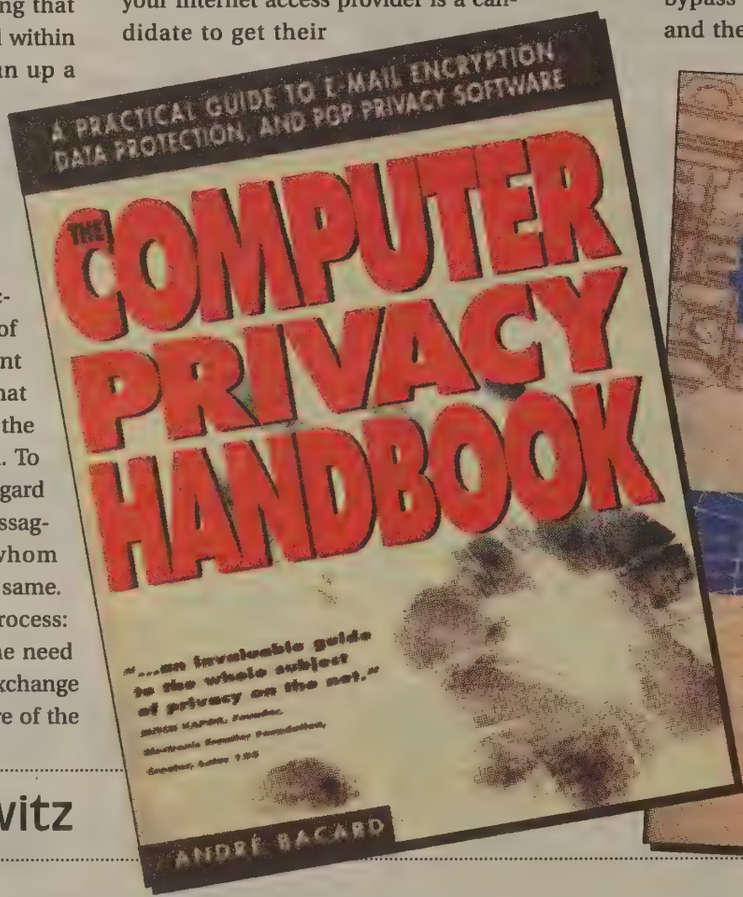
For example, any disgruntled employee of your Internet access provider is a candidate to get their hands on your password and distribute it—along with hundreds or thousands more—to others, for pay or just for fun.

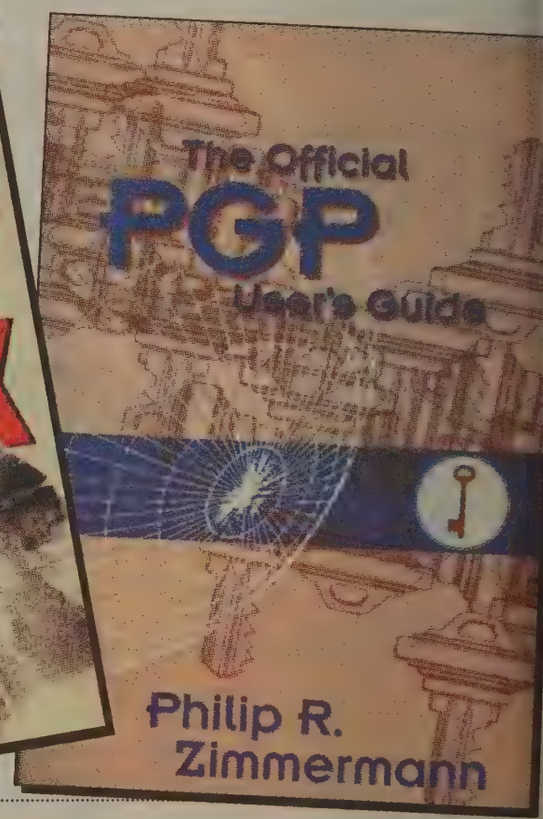
That's why most people who are knowledgeable about computer security are reluctant to leave any type of "clear" or unencrypted information on their computer if they are not right there.

Your privacy is even less secure if you're working with network or workgroup software provided by your employer.

A recent survey by *MacWORLD* magazine found that more than 20% of businesses in the US acknowledge that they have monitored and/or scanned through their employees' computerized files, email, or in-house voice mail messages. The extent of unacknowledged access into these sorts of files is impossible to calculate.

In these situations, passwords won't help you. It's almost certain that your network administrator or technical support group has the power to bypass or temporarily change your password, and then review all your files without leaving





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you a clue that it happened. What's more, they probably have the legal right to do so, too.

A simple rule of thumb: Take steps to protect any computer files or email messages containing private matters that you wouldn't discuss openly on your office telephone.

Here are some concrete reasons to fear today's electronic threats to your privacy:

• Item: There's a lucrative grey market in private bank records, credit card purchase records, unpublished phone numbers, and IRS files. One company has hooked up with Chase Manhattan bank to offer "Privacy Guard" protection at $49 per year. It doesn't actually protect very much of your privacy, but it does let you monitor the computerized records on you and your family, to some extent. At least you can more easily discover what others can learn about you.

• Item: No federal laws protect you from the typical invasions of your privacy now available to computerized criminals. In a bizarre twist the records of your videotape rentals have some of the strongest protections. Passed largely to protect Supreme Court nominee Robert Bork's habit of renting "adult" videos, the 1988 Video Privacy Protection Act makes your video-viewing preferences better protected than your bank account numbers or auto driving record.

• Item: One of the fastest-growing crimes is based on finding and stealing credit data. Computerized criminals search the Internet and its resources for satisfactory credit reports, then manipulate the files to get themselves credit cards, mortgages, and other cash benefits. Trans Union recently began citing as many as six thousand fraud complaints per month!

It's no wonder that a 1994 survey by Louis Harris and Associates found that more than 80% of Americans are concerned about their privacy—a much higher figure than similar Harris polls found in 1992 and 1978.

While disgruntled people are probably the most likely cause of "insider" infringements on your privacy, there are many other, unlicensed and less law-abiding people out there who are looking for kicks, interested in seeing how much trouble they can cause, testing their programming skills against "the system," or just reeling under the influence of a troubled mind.

These people—or those to whom they distribute such confidential information—forage for private information like wolves constantly test the herds in search of the weaker antelope and elk. Even if your messages don't contain trade secrets, insider financial information, or matters the law requires you to keep confidential, they could easily contain clues to the most intimate details of your private life, your political beliefs, or even just your vacation plans—a subject in which burglars tend to be very interested. And once the information gets away from you, there's no telling how far afield it can travel.

Most people have no idea all this is true. They live in blissful ignorance, and continue to send email without taking any steps toward privacy protection.

That's why it's not enough just to be sure in your own mind that maintaining privacy is a good thing. You've got to spread the word.

One good way to get others interested in protecting their privacy, and thus yours, is to add an encrypted "signature" to every file you send. It gives the message a distinctive look, and piques the interest of other people. Once they ask you, "What is that thing?" you can begin to talk about the advantages of privacy.

One good way to get others interested in protecting their privacy, and thus yours, is to add an encrypted "signature" to every file you send.

Step Two: Technical Matters

In last month's article, we discussed the procedure for getting a copy of PGP, the de facto standard for file encryption both on the Internet and within standalone computers. (Briefly put, you do it by using Anonymous FTP to connect with *net-dist.mit.edu/pub/PGP*, and then download the README file to obtain more detailed instructions.)

Those who want more detailed guidance can buy the recently released book: *The Official PGP User's Guide*, by Philip R. Zimmerman (The MIT Press, Cambridge, MA, $14.95).

There's also Andre Bacard's *Computer Privacy Handbook* ($24.95, Peachpit Press, 1-800-283-9444). Complete with an introduction by Mitchell Kapor, cofounder of the Electronic Frontier Foundation, this book covers many of the practical steps one can take right now to protect one's privacy.

New Privacy Survey Under Way

A major financial services corporation has commissioned Literal Research to gather opinions about consumer privacy for transactions over the Internet.

Those of you who'd like to make your opinions a part of this survey can answer the questions directly on the World Wide Web. The location is *http://www.literal.net/research* . Here's a rundown of what you'll find:

Literal Research Internet Transactions

"Many efforts are currently underway to enable electronic commerce over the Internet. Most of these efforts will mimic the current banking models for cash, credit, debit, and checking. These payment vehicles will be used to purchase products and services electronically.

"Some consider transaction security and privacy essential to the successful implementation of electronic commerce. The goal of this survey is to identify consumer preferences as they relate to privacy for payment options over the Internet.

"1. How interested are you in making purchases over the Internet? (no opinion, very much, somewhat, not at all)

"2. Would you be making purchases on the Internet for your? (personal use, business use, both)

"3. What types of goods or services would you be interested in purchasing over the Internet? (check all that apply: consumer electronics, computer equipment, commercial software, shareware, information, books, music, other)

"4. Would you use a credit card to make purchases over the Internet? (no opinion, often, sometimes, never)

"5. Would you use a debit card to make pur-

continued on page 324

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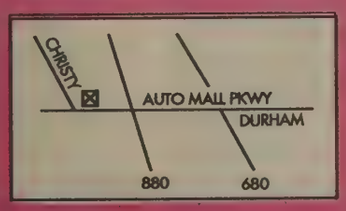

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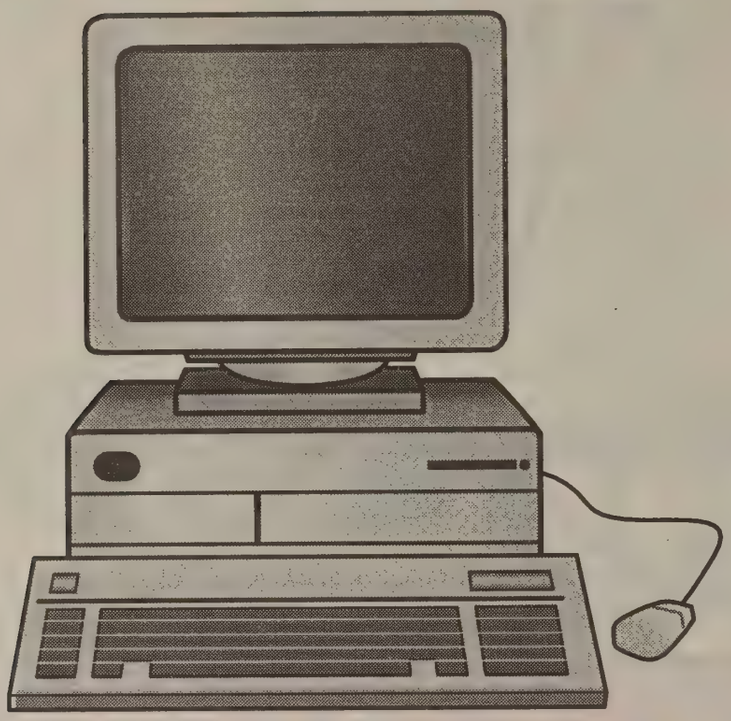

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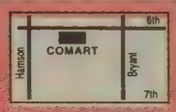

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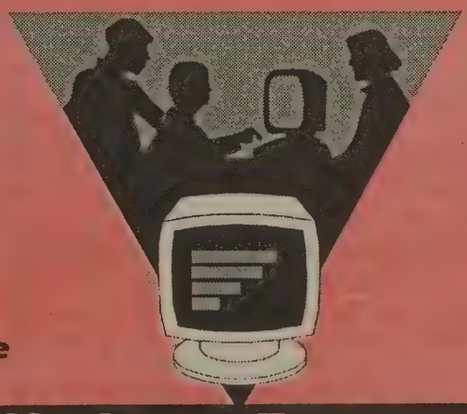

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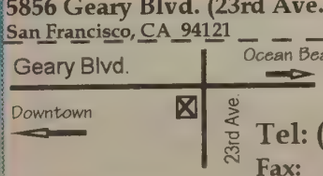

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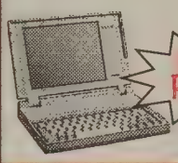

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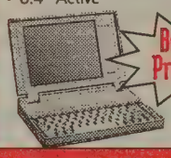

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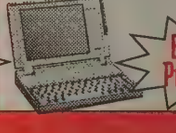

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Reviews

Amiga Software Reviews

PC-Task v3

Published By: Quasar Distribution
List Price: $135
Reviewed By: Douglas J. Nakakihara

PC-Task is a multitasking software-based PC emulator for the Amiga. With it, you can run most PC programs that require an 80286 processor or below. It can access up to 16MB of your Amiga RAM as PC RAM and utilize your Amiga peripherals (mouse, printer, modem, CD-ROM, etc.). For storage you can either use a hard drive partition or it can generate a file that is treated as a partition. Your Amiga (low- or high-density) floppy drives act as PC drives.

Software installation is a snap and all of the setup is done on a simple options screen. (Note: You need to supply your own copy of MS-DOS.) If you have an AGA machine, you can emulate up to a 256-color SVGA display. Non-AGA machines are limited to monochrome, CGA, or EGA. Microsoft Windows 3.1 runs without a hitch, but as you might expect, performance is not exactly blindingly fast, even with a 40MHz '040. Additionally, Windows only runs in real mode (not enhanced) due to the 286 CPU-limitation. Still, this is quite a feat!

PC-Task will work on a standard 68000 and 512K of RAM, but I'd recommend at least an '020 and several megabytes of RAM for acceptable performance. The 52-page indexed manual is fairly detailed and includes troubleshooting hints. This is a wonderful program and highly recommended if you need to run PC programs, particularly DOS applications. (Quasar Distribution, P.O. Box 188, Southland Centre, Victoria 3192, Australia. Voice: 61 3 583 8806. Internet: *pctask@quasar.dializ.oz.au*)

WordWorth v3.1

Distributed By: Soft-Logik Publishing Corp.
List Price: $135
Reviewed By: Douglas J. Nakakihara

WordWorth v3.1 is the most feature-packed Amiga word processor to date. The developers did their homework and obviously looked at the (real) competition on other platforms. In fact, if you've used Word for Windows, in particular, you'll be right at home with WordWorth.

All of the standard stuff is here, but WordWorth goes further with features like auto-correct, librarian, text effects, drag-and-drop editing, tables, index, drawing tools, etc. Auto-correct, for example, will fix user-definable typing errors on the fly, like changing "hte" to "the." The librarian feature allows you to easily select and insert often-used phrases. Text effects will bend text into a variety of interesting shapes.

Outline font support is incredible. You can use PostScript Type 1, AGFA Compugraphic, and TrueType fonts directly without conversion. You can even mix all of them in the same document. Internal printer fonts are also supported for a wide array of printers. You can even print Encapsulated PostScript (EPS) graphics on non-PostScript printers. (There appears to be a sizing problem when printing EPS files to PostScript printers, however.)

WordWorth will load files from Word (DOS), Windows Write, MS Works, WordPerfect (DOS), Wordstar (DOS), RTF, and ASCII files. Saving in WordPerfect, RTF, and ASCII formats is also supported. WordWorth will run on any Amiga with 2MB of RAM, but requires DOS 2.04 or greater. The slick 337-page manual is beautiful. Finally, a professional-level word processor for the Amiga. (Soft-Logik, 11131 S. Towne Sq., Suite F, St. Louis, MO 63123. 314/894-8608)

CD-ROM Reviews

Atari 2600 Action Pack For Windows

Published By: Activision
For: 486-33 or faster, Windows 3.1, 4MB RAM, CD-ROM drive, SoundBlaster, 256-color SVGA, joystick optional
List Price: $29.95
Reviewed By: Kevin Savetz

Turn your PC back into 1970s technology!

No, really, it's not as bad as it seems. In fact, it's a lot of fun. Remember that old Atari 2600, the wood-grain-finished, wrist-cramping, 4K of wonderment of yesteryear? Fifteen classic 2600 games are back, in all their glory, in Activision's Atari 2600 Action Pack for Windows.

The games in the Action Pack are true to the originals—same lousy graphics, same feeble sounds. In short, they're still wonderful. Game play is also true to the originals, although it may take some practice playing these games with a keyboard instead of a joystick.

The Action Pack includes: Boxing, Chopper Command, Cosmic Commuter, Crackpots, Fishing Derby, Freeway, Frostbite, Grand Prix, H.E.R.O., Kaboom, Pitfall, River Raid, Seaquest, Sky Jinks, and Spider Fighter.

Lately, some companies have been revamping classic (read: old) games with today's state-of-the-art graphics, sound, and music. Activision takes a different tack: give the player the game exactly like it was fifteen-odd years ago. Well, almost. The 2600 Action Pack does add a few niceties.

First, all the documentation is online, part of Windows' help system. In addition to the usual how-to-play info, the docs include short interviews with and information about the games' programmers. It's fun to find out what the cre-

ator of River Raid is up to today. Another interesting (although odd) feature is "Mom," a digitized nag that tells you to "go outside and play," and warns that you'll ruin your eyes staring at that thing. Fortunately, you can shut Mom off, something you couldn't do in real life. (Activision, 310/473-9200)

LINKS 386CD

Published By: Access Software, Inc.
For: 386SX, MS-DOS 3.1, 4MB RAM, hard drive with 16MB free, double-speed CD-ROM drive, 256-color Super VGA monitor, mouse, sound board recommended
List Price: $49.95
Reviewed By: Todd Medley

Do you dream of driving the long ball at Banff Springs? Or sinking the perfect putt at Harbour Town? Does playing the championship courses the pros play intrigue you? Does a low handicap sound more like heaven than a disability? Then this is the golf game for you! LINKS 386CD delivers on its promise to be "rivaled only by the game itself." Beautifully detailed graphics and sound combined with realistic game play create an incredibly realistic golfing experience. No, you don't get to throw your clubs, but gimmies and mulligans are optional.

The Banff Springs Resort Course and Harbour Town Golf Links are both rendered in great detail, showing actual landmarks and realistic terrain. Water hazards, out-of-bounds, and other obstacles are precisely placed. Wind and green conditions are adjustable based upon your skill and/or gall. Provided your system has a sound board, birds tweet and frogs croak as you wind your way (hopefully) through the perfectly manicured fairways of these two stunning courses.

Three different sound tracks are available. Two feature the comedic renderings of Bobcat Goldthwait, which, much like his act, are somewhat humorous in the beginning but soon grow old and repetitive. Track two was less offensive than track one, but in general I preferred track three, featuring a galley and a supportive computer voice to urge you on, remaining politely silent during less stellar performances.

Game play is simple yet challenging. An optional computer caddie selects the proper club from a repertoire of clubs based upon your lie and distance to the pin. You can customize your own bag or use the default setting. Shot distance, direction, and shot velocity are easily manipulated with the mouse. Putting and chipping, like the real thing, are more difficult than drives and long irons. The controls are sensitive, but not overly so, and actually add to the realism of the game.

Before play can begin, you must create a player on whom detailed statistics are kept. You can create as many players as needed, and computer-recorded players are available to provide stiff competition. However, you can also compete against other players around the country if you have a modem. Additional LINKS 386CD courses are available, which will keep even the most avid golfer interested after many rounds. (Access Software, Inc., 4750 Wiley Post Way, Bldg. 200, Salt Lake City, UT 84116. 1-800-800-4880)

Macintosh Software Reviews

PhotoFusion v2.0.3

Published By: Ultimatte Corp.
List Price: $695
Reviewed By: Matthew Leeds

Creating composite images in Photoshop requires patience, a steady hand, and lots of practice. While Photoshop 3's layers make the process easier, retaining detail with some images is an exercise in madness. Try creating a mask for a piece of lace or a fern. PhotoFusion, from Ultimatte, automates much of the masking and compositing process. It does require that the foreground image be shot against a single-color background such as a bluescreen.

PhotoFusion is an Acquire plug-in for Photoshop and other applications that support Photoshop's plug-in format. It uses a "dongle," a hardware key that plugs into the ADB port. The dongle does provide a passthrough for the ADB, so that you can plug it inline with your keyboard or mouse. I noticed no ill effects while using the dongle aside from my general dislike of such mistrust from manufacturers.

PhotoFusion is much easier to use than the manual implies. I found it difficult to understand much of what the manual described until I just tried using the program for myself. Simply put, you load in the foreground image and select an area of the background color. This generates a grayscale mask. You then load in a background image which is masked to the foreground by the grayscale mask. You can adjust the mask and the color of the foreground and/or background image all independently. You can also match selected areas of the background and foreground simply by selecting them and using a single button.

You can save the resultant composited image, just the foreground with the mask, or just the mask. You can also save a control file that contains all the settings of your work session and use the same settings with another set of image files. PhotoFusion is fast, works with any size set of images, and lets you clip an oversized background image to fit the foreground image. While the price may place PhotoFusion at the high end of plug-ins for Photoshop, its features do as well. (Ultimatte Corp., 20554 Plummer St., Chatsworth, CA 91311. 1-800-993-8046)

Software Directory For Macintosh

Published By: In4mation Software
List Price: $99.95
Reviewed By: Matthew Leeds

Keeping up with the ever-growing list of titles available for the Macintosh is an impossible task for the average Mac manager, much less an end-user. While there are innumerable magazines, catalogs, and retail stores, few carry or list but a fraction of the software products in existence. It may be easy to find a list of word processing or spreadsheet programs, but what if you need a specialty item like bar code fonts or a printer driver for your old Radio Shack dot matrix printer?

In4mation Software has pulled together a database of Macintosh software titles with over eighty-eight thousand entries. Delivered using FileMaker Pro, the database includes a runtime version of FileMaker Pro for those who don't already own a copy. There are over fifty different fields and fourteen views that provide remarkable flexibility in accessing the data. Full technical information on each product is provided in those cases where it was available, and product reviews and awards are cited for reference.

This is the most complete listing of Macintosh software on CD that I've found. While I use several reference sources when trying to locate a specialty package, I've located more unique products with this database than in any other commercial directory. Updates are planned for every six months at a cost of $39.95. (In4mation Software, 208 W. Paseo de Cristobal, San Clemente, CA 92672. 1-800-335-1115)

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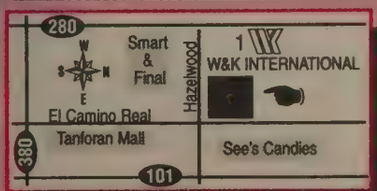

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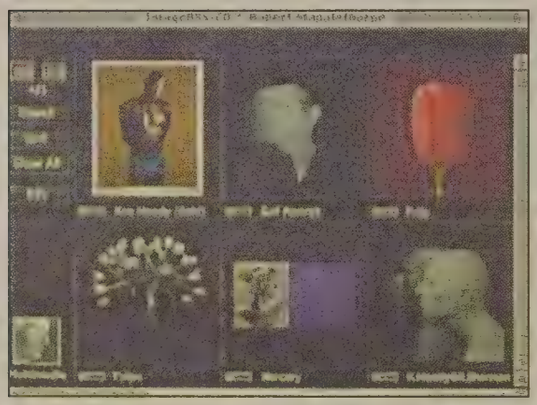
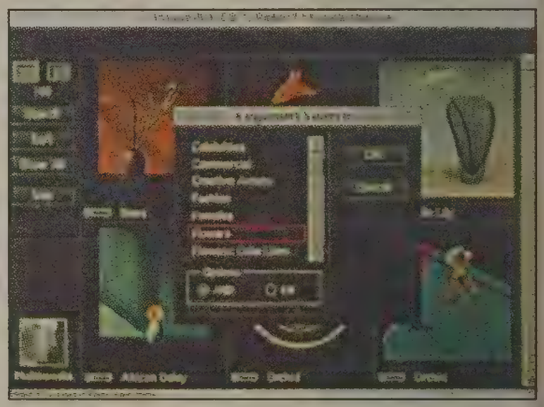
Gulch GOSSIP

by Jonathan E.



CD-ROM Of The Month Club



NOW, THERE'S AN IDEA WAITING for some smart entrepreneur to put it into effect—but it may already be too late, as the real Book Of The Month Club is already offering CD-ROMs.

One of the first is Digital Collections' title on **Robert Mapplethorpe** with music provided by Eric Walker, who's played serious music around town for years. The Mapplethorpe title will come in two flavors, full strength for liberated places like the Bay Area, where it is assumed we can stomach strong art, and a watered-down version for the rest of the country, where one can get into trouble for exploring the hidden underside of life.

Digital Collections has two other art titles on CD-ROM, but with less "multimedia armature" as **Eric Kotila** put it, meaning that they have pictures of the art and scholarly text but no narrative or music as with the Mapplethorpe title. One is the Frick collection of ancient Egyptian art from the Brooklyn Museum, the other is Japanese Edo art from the **Joe Price** collection in LA. These two titles do not have such widespread distribution as the Mapplethorpe title, but further info on all three may be had from **Melody Bohannon** at (510)814-7200.

21st Century Gets Bundled

21st Century Media's *Singletrak Mind*, fresh from its appearance at Multimedia Live in April, is now bundled worldwide by Apple during 1995 as part of its CD-ROM Collection. The arrangement is nonexclusive and 21st Century Media continues to actively seek partners for publishing and distribution. Contact **Jim Baker** at (415)453-9407 for more info.

Software/Hardtalk

In case you can't get enough of our renowned back-of-the-book columnist, John C. Dvorak (and who could?), remember to check his radio show, *Software/Hardtalk*. Now, after three years as radio-only, the show takes off into the world of new media with an AOL version launched June 1st. The service features transcripts of interviews, chat areas (of course), shareware, video and photos, plus more information on the show's sponsors than is permitted under NPR's guidelines. **Duncan Phillips**, dog slave to **Tucker**—the well-known canine frequently to be seen at social events in the Gulch—is the online producer. Executive producer of the show is **Maureen McGinley**.

The show can be heard locally on KALW, 91.7FM, on Wednesday mornings at 10. It's also syndicated to about sixty NPR stations around the country. An additional significant feature of the online service is that, being national, it can reach potential listeners around the country with information about the affiliate radio stations. A Web site is scheduled to be launched in July.

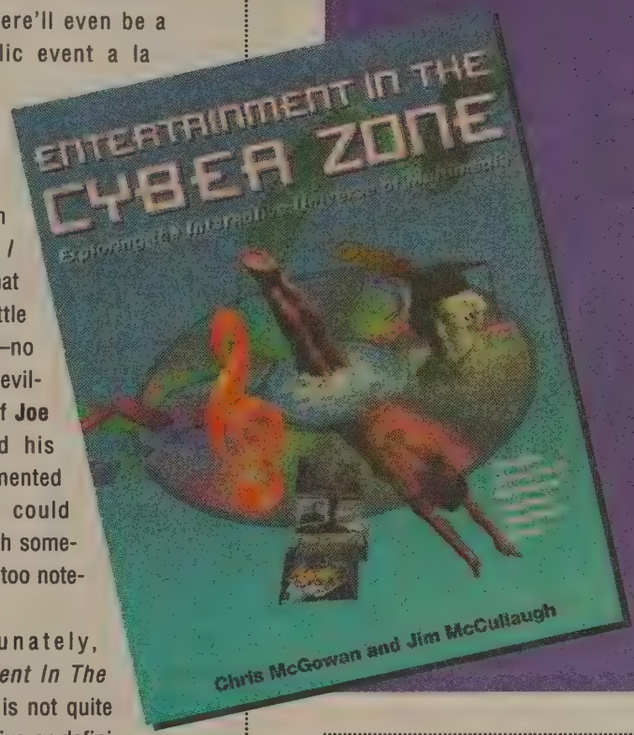
Entertainment In The Cyber Zone

This is not really a review column, but every so often something comes in that just seems to belong here. Such an item is the *Entertainment In The Cyber Zone* book by **Chris McGowan** and **Jim McCullaugh**, newly published by Random House. It's a great guide to the world of interactive entertainment, with a lot of chatty history in the form of interviews with many of the industry's pioneers, concise reviews of loads of products, and discussion of various platforms and the issues abounding in the wonderful world of computer-mediated entertainment.

Some of the reviews are a little on the charitable side, and in what is undoubtedly an attempt to overcome the usual problem of books being outdated by the time they're printed, there is some optimistic reporting of several titles as having been released while we're still waiting for them—the release of *Total Distortion* for example. Hopefully, when that much-anticipated title is finally available, the press will be woken up from its slumber. Perhaps there'll even be a grand public event a la OS/2(a) Warp in Beijing. On second thought, with *Total Distortion* that may be a little dangerous—no doubt the devilish minds of **Joe Sparks** and his crew of demented geniuses could come up with something a little too noteworthy.

Unfortunately, *Entertainment In The Cyber Zone* is not quite comprehensive or definitive, but it's wide-ranging enough to be very informative. **Fabrice Florin** wrote the foreword.

It's reasonably priced at $19 and is highly recommended for either the novice looking for an introduction or the experienced looking for a quick-and-easy reference to consumer titles.



In This Section:

- Gulch Gossip.....258
- Multimedia 101
  Beyond Pop Music.....264
- Amiga
  Alpha Paint 272
- The Daedalus Encounter.....200

For the latest CD-ROM and software news & reviews, see our Product Spotlight section starting on page 255

This Month's Marc Canter Item

THE MASS HYSTERIA OF THE PUBLICISTS and advance word of all the fighting games scared me off from going to **E3** but **Scott Rosenberg** is made of sterner stuff. He got back alive and humorously reports, "My favorite image: **Marc Canter**, newly signed with Sony, finds his little kiosk is directly across from the entrance to the humongous Sony Playstation exhibit, where they're shepherding crowds through a video-screening accompanied by a live drummer. Marc is not happy that no one can hear the Media Band music when he does a demo. So he sends out for a stack of Marshall amps and plugs his computer output into them." Scott is widely regarded as one of the most astute and knowledgeable observers of all things cyber, digital, and virtual; to keep up with him, read his column, which now appears every Wednesday in the *San Francisco Examiner.*

Mapenzi Goes To Macromedia

Brett Stewart, one of the figureheads of San Francisco's mid-eighties World Beat scene with his Zimbabwean-influenced band **Mapenzi**, is now at Macromedia doing QA work on their digital audio stuff, principally SoundEdit16 at this time.

And The Raster Masters Go To Germany

Meanwhile, in the reverse cultural exchange, the **Raster Masters** went to Berlin in late May to present their mind-blowing visual improvisations for two nights at an opening for Silicon Studios. DJ **Andrew Briggs**, once of the techno persuasion but now mostly ambient oriented, provided the music.

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Station Rose Comes To Town

The **Gunafa Twins**, as **Howard Rheingold** calls **Elisa Rose** and **Gary Danner** of Frankfurt's Station Rose Hypermedia, paid a visit to San Francisco and Los Angeles on a grant from the Austrian government to do "field research on American pop culture." While in LA they stayed with **Timothy Leary**, dropped in on **Terence McKenna** at Esalen on their way to the Bay, and once here stayed with **Hilarie Gardner** of The WELL and **Tex Coate** of The Gate.

At an Anon Salon, they demonstrated their first CD-ROM, for which they are still looking for an American distributor. If you're interested in the project, which combines techno music with vivid graphics, contact them through email at *gunafa@well.com*, or check out their Web site, **http://www.well.com/www/gunafa/stationrose.html.** Longtime cybernauts (well-heeled ones, anyway) may remember the Gunafa's rather bizarre but intense "Public Brain Session" in the middle of the night at 1990's Cyberthon.

How To Introduce Software

I was fascinated to read of IBM's introduction of "the Chinese version of its award-winning operating system, OS/2(a) Warp Version 3.0, the first simplified Chinese 32-bit operating system."

The press release continues, "The announcement in Beijing was celebrated throughout the city, with OS/2 Warp hot-air balloons in the university and computer districts, hundreds of OS/2 Warp kites flying over Tiananmen Square, and thousands of OS/2 Warp balloons given away in Beijing's business district. The launch event in Beijing is the fifth in a series of major international OS/2 Warp launch events. [...] The Beijing event was attended by more than one thousand people, including representatives from the Chinese Ministry of Electronics Industry (MEI), university faculty and staff, customers, and business partners."

Similar events were scheduled to take place in Shanghai and Guangzhou in the following two weeks. There was no word of public execution or release for any of China's many political prisoners as part of the festivities—but if you're going all out, why not go all the way? Perhaps they're working on it for the future; perhaps Microsoft will arrange one or the other when Windows95 finally sees the light of day—and in keeping with "the light of day," I would recommend release rather than public execution.

Now granted China is a huge market and an operating system will sell more than most software products, but why isn't South Park festooned with balloons when a Gulch company releases the fruit of its labors? You don't suppose there's a little sensitivity to the "hot-air" concept, do you? ■

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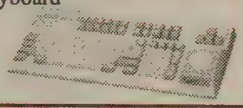

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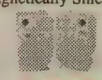

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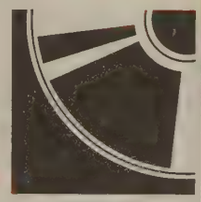

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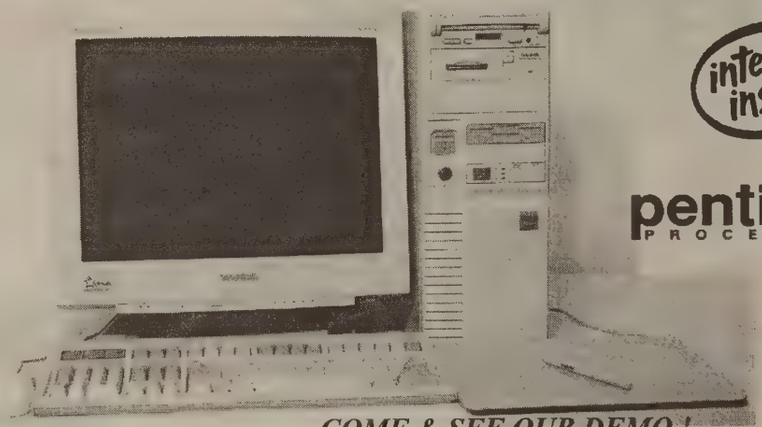

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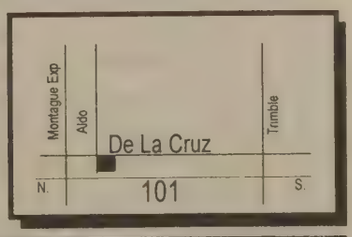

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MULTIMEDIA 101

Multimedia Models: Beyond Pop Music

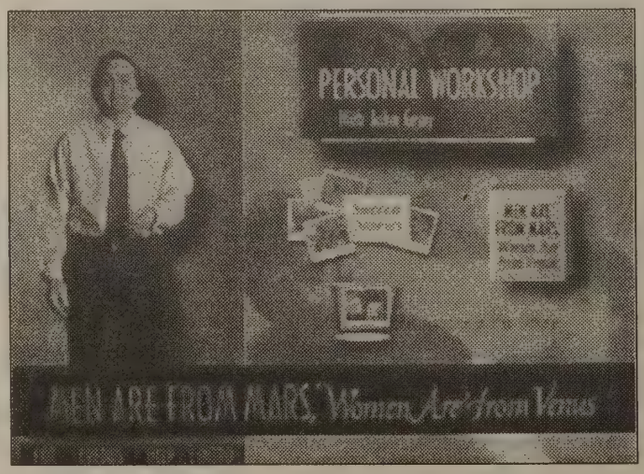
Relationship Counseling From Your Computer

The past two months' Multimedia 101 columns have concentrated on music-related multimedia titles. That was because one potential model and basis for multimedia culture is obviously popular music and its related business infrastructure.

My gut feel is that this will eventually become a wide channel for multimedia diffusion—provided enough grassroots independent creative thinkers manage to overcome the "interactive liner notes" dreck that major-label lamebrains are attempting to foist on the gullible. However, it is worth noting that Sony Music Entertainment's floppy-based video game/screensavers may have some appeal, although I'm not sure that Michael Jackson is really who I want popping up on my computer screen.

There are, however, some other equally obvious models: book publishing (which offers a wide diversity of models itself), documentary video, and various games and puzzles fronting as educational devices, to name slightly more than three.

Of course, the model that attracts most media attention is the good old Hollywood blockbuster, something I find profoundly uninteresting, although it can produce a knee-jerk-reflexive and vulgar response to the huge sums of money involved and also provides for a certain grim sociocultural observation on what passes for entertainment these days. How do you spell "S-P-E-C-T-A-C-L-E"? How do you spell "B-R-E-A-D A-N-D C-I-R-C-U-S-E-S"?



And, unfortunately, the type of film and film characters that generally attract the multimedia attentions of the moguls and wannabes who make the decisions are not the most refined. I'll admit that there may, curiously enough, actually be a technical reason for this in addition to the marketing imperatives. If you are indeed allowing the user to direct the actions of a character and the outcome of a series of dramatic events, you will be asking less of the users' willing suspension of disbelief if you do not define and refine characters and events to the purity and strength demanded by traditional narrative form. The debate about storytelling and interactivity is a lengthy one, but it seems possible that old-fashioned high-falutin' artistic concepts of character development may inevitably become casualties in any user-determined dramatic sequence of events.

But one of the wonderful things about multimedia is that it is such a plastic and malleable medium that all these models and more remain theoretically viable. The questions of whether one or another channel or title will repay investment does, of course, depend on the amount of investment involved and the size of the potential market—as well as, we critics fondly hope, upon the excellence, or not, of the particular title's execution.

BY JONATHAN E

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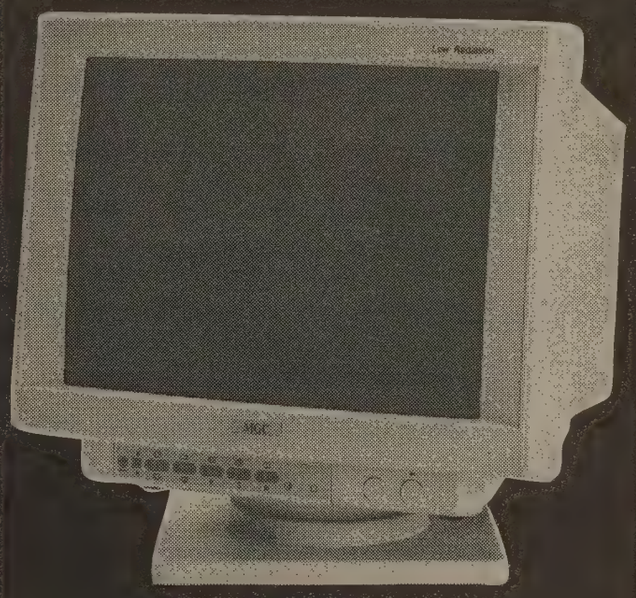

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MEN ARE FROM MARS, WOMEN ARE FROM VENUS

It's not much of a surprise that best-selling books, particularly ones by an author who takes his act on the seminar circuit and already offers the multiple media of tapes and videos, will naturally attract the multimedia attentions of publishers. And when the subject is the evergreen and fertile field of relationships, a field that is in its essence about visual and audio cues, there would seem to be some potential for an interactive multimedia treatment, if not a perfect match. And when that publisher is HarperCollins, the print outpost of mega-mogul Rupert Murdoch's far-flung media empire, you might simply ask why it took so long.

The CD-ROM/book multiple-media package of John Gray's *Men Are From Mars, Women Are From Venus* is indeed a livelier affair than the book alone. The two media couple nicely, with the CD-ROM offering faster access to a more vivid and dramatic presentation of Gray's spiel while the book is—well, at least it's readable on the bus and also somewhat deeper and more complete than the multimedia presentation.

I'm not going to comment much on what Gray has to say beyond noting that fashions change from decade to decade in the ways that the differences and relationships between the sexes are viewed, and that his view that men and women might as well be from different planets is as attractive and accurate a metaphor as many others. A more fatalistic and long-term European view might be that we humans are merely the innocent civilian victims of the ongoing war between God and the Devil where both sides use sexual relations as the weaponry to befuddle and divert us towards one camp or the other.

However, Gray claims that "more than 100,000 individuals and couples[...]have already benefited from my relationship seminars" (I am curious as to how many people that really means: 100,000, 150,000, or 200,000?), and so there is clearly some widespread appeal and what he says must work well for some. In fact, I will admit that much of what Gray says resonates with my own personal experience, sometimes in quite embarrassing ways. Further, he advocates specific techniques—and demonstrates them on the CD-ROM—that display more than ordinary insight into human nature and affairs, perhaps even a degree of wisdom.

By far the major portion of the CD-ROM is "The Interactive Workshop." In addition, the CD-ROM includes four short clips from uncredited movies from "Hollywood's past," the complete text of the book, and a few testimonials from satisfied clients of Gray's seminars. But while these are not exactly filler—both the movies and the book are tied into the workshops—the real interest of the CD-ROM as content and interactive multimedia lies in the workshop section. It makes for an interesting case study. Most of it is well executed, demonstrating a reasonable use of multimedia techniques even if not wildly exciting, although there are also some curious rough spots.

THIS LITTLE PIGGY WENT TO MARKET

The illustrations and copy on the box promise a "customizable personal workshop." This is, of course, marketing talk, meaning that it transforms fairly mundane interactivity into something that appears to be more without actually telling a lie.

What you get is a questionnaire of ten questions for men and eleven for women; you can answer as a man or a woman or use both sets of questions and answer as a couple; your answers must be from the multiple choice menu of Often, Sometimes, or Rarely—in other words, there's not much opportunity to get really personal here.

Once you've answered the questions (and, while you can bypass the whole questionnaire, once you're in, you have to answer every question), John Gray pops up with one of three canned responses, the same for either sex and basically not very informative—but nicely positive, and a varied selection from the six workshop sessions is highlighted for your attention.

Depending on which questions you answered with an "Often" and which with a "Rarely," it's pretty obvious why particular workshops are suggested. In fact, there's a visual cue in the questionnaire, as each pair of questions that deals with a particular issue has a shared illustration. It's actually a pretty neat little trick but didn't quite come up to the heightened expectations produced by the box copy. I expected Gray's responses to be more varied and based on the sex of the respondent and the specific answers to the specific questions. The way it is just doesn't seem very personal.

This does, however, serve quite well in a minimal way to introduce the workshops to the user and to provide an initial focus. It also raises the tantalizing prospect of much more complex questionnaires, a wider scale of answers, and some sort of more authentic response. As is so often the case with multimedia products, today's implementation points down the road to tomorrow's goal as much as being a destination in its own right.

GET BUSY!

Each workshop deals with one aspect of the differences between men and women and suggests ways to deal with those differences. Generally, within the topic, the format features a video clip of John Gray introducing the topic. There is then a choice of two situations to look at it in, or the "Another Look" section; and in four topics you can choose to view a movie clip for "Relationships in Pop Culture."

Across the bottom of the screen is a relevant quote from the book with a hot link to that section along with a button that opens your own personal notebook for your commentary. The quote and links change from screen to screen so you can enter the text of the book at many different points.

There's a fictional couple, Michael and

Sony Music Entertainment's floppy-based video game/screensavers may have some appeal, although I'm not sure that **Michael Jackson** is really who I want **popping up** on my computer screen.

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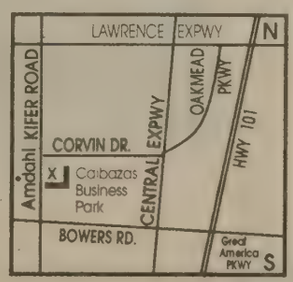

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MULTIMEDIA 101 *continued...*

Megan, who dramatically portray these tense domestic scenes along with possible improvements. The topics are handled a little differently from workshop to workshop depending on what seems appropriate. However, the most common scheme is that Gray will again introduce the situation on video; you can then click on a video clip showing the situation degenerating into emotional ugliness or on another clip showing how the situation can be resolved in a more elegant and loving way. After each clip, Gray springs to life on the left side of the screen and analyzes what just went down.

There are also buttons for audio clips of Michael's and Megan's feelings about the situation and each other. In some workshops, the scheme is varied. For example, in the "Scoring Points With the Opposite Sex" workshop, besides the standard situation of emotional confrontation, there is also a slide show of stills with voice-over offering "Tips on Scoring Points."

In the "How to Communicate Difficult Feelings" workshop, instead of tense situations, you can hear examples of what Gray calls a "love or feeling letter" from Megan and Michael along with Gray explaining the eight steps to writing one yourself. A good feature in this section was that, after Gray suggests you take a couple of minutes to think about what you want to say, a clock appears on the screen counting down the seconds. However, in the truest spirit of computers being our servants and interactivity, you could override the clock and move on.

In the "Another Look" section, there's a choice of two or three video clips from one of Gray's seminars, along with two or three links to an appropriate section of his book. The "Relationships in Pop Culture" section is iconized with a cartoony '50s-style television set. Each clip is followed by John Gray's commentary, which is just as well because, without the commentary (which you don't get in the Pop Culture section itself), I mostly just didn't get it! And even with the commentary, it sometimes seemed like a bit of a stretch to relate the clip to the topic. Each clip in the Pop Culture section also has a link to take you to the relevant workshop topic.

This scheme is generally a well-organized and simple branching and linking system with no big surprises and adequate navigational abilities provided by a return arrow and pop-up menu in the lower left of the screen. You'll always know where you are, how you got there, and how to get out. Once or twice I wondered why there was a link from a specific workshop to a particular part of the book.

In the book section itself, there's a table of contents with each chapter broken into several sections so you have reasonably efficient access. There is, however, no search function or even index, which I have mixed feelings about considering this is a digital medium—but then the matter doesn't absolutely need it and think how silly it would be to search on, say for example, "opposite sex."

continued on page 328

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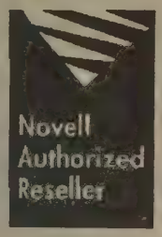

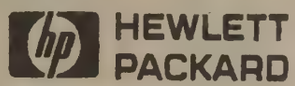

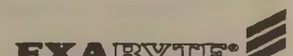

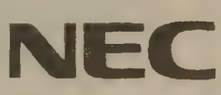

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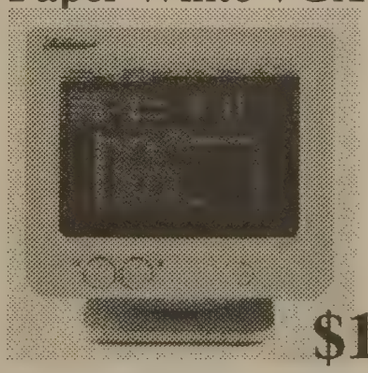

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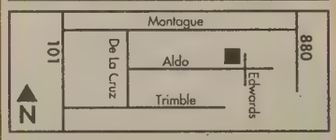

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Alpha Paint

36-Bit Butter For Your Toast

If you really need professional results, I've always found the best approach was to paint in RGB, then hope and pray it looked okay on a composite monitor. After using AlphaPaint from InnoVision Technology, I can now see that the problem was in my tools, not in the display capability. Alpha Paint lets you paint right on the Toaster's Program monitor, so it's WYSIWYG in the purest sense.

ALPHA CHANNEL

With 24-bit real-time painting capabilities, an 8-bit graphics alpha channel, and a 4-bit dithered video alpha channel, Alpha Paint is billed as a "36-bit" paint program. Actually, Alpha Paint implements several different alpha channel tools. There are brush graphics and video alpha channels, a weight (density) control, and a stencil alpha channel.

Generally, graphics alpha channels are used to composite graphics together, like stamping a brush down with some level of transparency over a full-screen image. Video alpha channels allow video to show through graphics. So parts of an image may appear solid when viewed as a graphic; however, when keyed over video, defined areas will appear transparent, letting you see the underlying video.

The brush alpha channels affect the pen or brush you're painting with and allow you to independently control their graphics and video transparency. Weight control is a global density setting and directs the overall amount of "paint" that is applied. The stencil alpha channel is a protection mechanism that masks out defined areas of the screen.

The Magic Wand tool lets you quickly define a stencil alpha channel. Using a definable tolerance range, this tool will unprotect (unmask) areas of the screen. This works best when the desired object is against a fairly solid-color background. Depending on the situation, this feature may eliminate the need to trace an object by hand.

HYPER-PALETTE

Alpha Paint's palette has two hundred "Color Boxes" displayed in selectable banks of twenty. In addition to merely defining a solid color, a Color Box can also define a "spread pattern" (see below). This allows you to quickly fill objects with gradients and other patterns, as well as define alpha channels.

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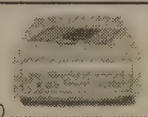

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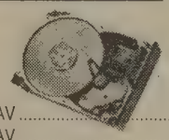

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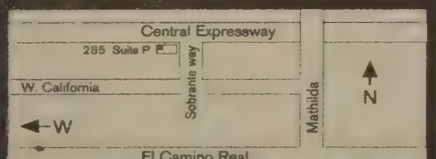

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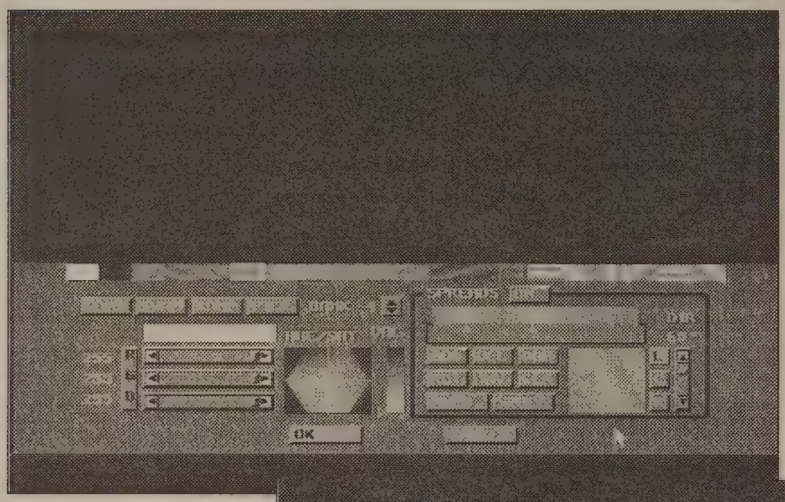

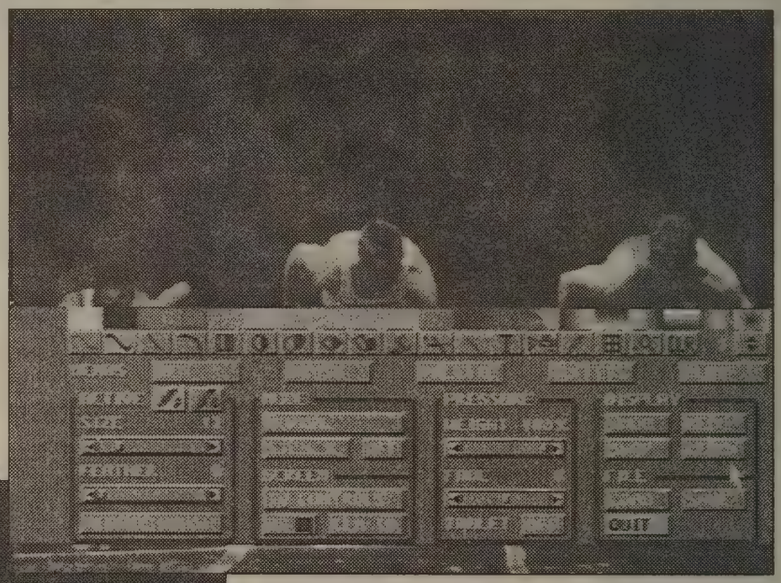

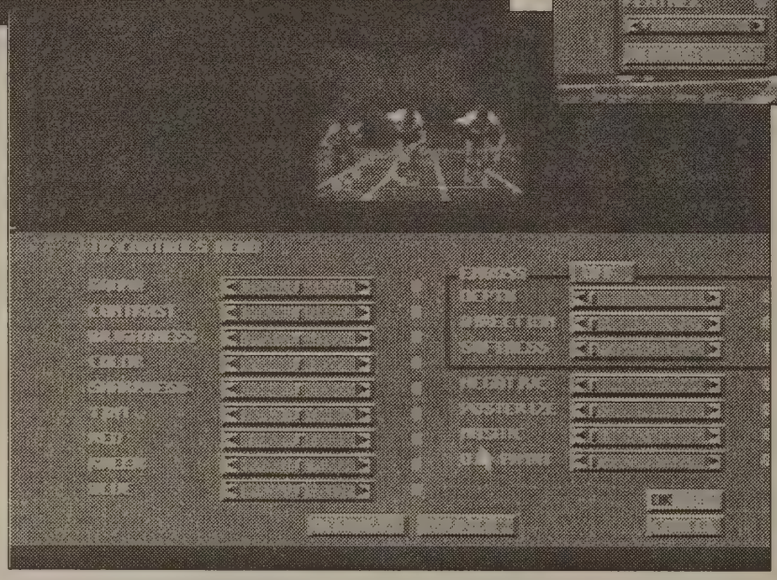

As you would expect, you can copy between Color Boxes, swap contents, and create a spread between two Boxes. Individual colors can be defined using either RGB or HSV (hue, saturation, and value) values. There is also a 24-bit hue and saturation color wheel called a "Color Cube" and a Value slider available to visually fix a color.

SPREADS

The right side of the Palette menu is devoted to custom "spreads." Essentially this is a color range creation tool, but goes beyond the usual implementation. As you add colors to the "Spread Preview Bar," a gradient is formed based on where you place the colors on the bar. A color can be repositioned by simply dragging its position indicator, and there is an option to evenly space all colors. Color order can be globally rotated or inverted. Individual colors can be deleted or duplicated as well.

Spreads can be linear, circular, or radial; you can adjust the Z-axis rotation of linear and radial spreads.

DRAWING TOOLS

The basic drawing tools like line, curve, rectangle, circle, ellipse, polygon, free-hand shape, fill, text, airbrush, etc., are present and accounted for. The cutting tool is used in conjunction with any of the geometric shape drawing tools (i.e., circle, polygon, etc.). Magnification is fixed at 75, 100, 200, 400, and 800% of normal.

In the Pen menu, you can choose between circle, oval, and rectangle for your pen shape. Besides just allowing you to adjust the pen size, you can also adjust its width and even rotate it. (Obviously, the latter doesn't do much if your pen shape is a circle.) Adjustable feathering is available to give brush strokes a soft, professional-looking edge. The Fade setting allows you to define how the applied pen or brush will gradually increase or decrease in one continuous stroke.

FILLS

The common Fill tool has some interesting nuances in Alpha Paint. Not only can you fill an area with a brush, but you have the option of automatically scaling it to fit the area or having it warped to fill the area. A tolerance level can be set to determine how close to the original color a pixel can be when Alpha Paint calculates the fill area.

TEXT

Alpha Paint supports Toaster, Chroma, and PostScript fonts. Adjustable attributes include height, width, italics, character spacing, Z-axis rotation, line spacing, and line justification. With PostScript fonts, you have the option of wrapping the text around a circle. Once the text has been defined, you can then apply brush attributes, like rotation, shadows, etc.

BRUSHES

Brushes can be loaded (and saved) from the Brush menu in addition to being cut-out from the main screen. When loading a brush you have the options of trimming black pixels (RGB 0,0,0) from the edges and adjusting the aspect ratio for (square pixel) brushes created on the Macintosh. From this menu you also set the global brush graphics and video alpha channels.

You may also size and rotate a brush manually or interactively. When rotating a brush, you can position and rotate in the X, Y, and Z dimensions, and also set the focal length. This allows you to set the visual depth of field making the brush appear flat or elongated along the Z-axis.

Brushes can be given a beveled edge, outlined, and extruded. There are also provisions for shadows, as well as back-lit glow and neon-outline effects, all with adjustable parameters. As an alternative to a brush's original colors, you can

change them to any of the Color Boxes or even map a new image on it. Edges can be feathered.

You can set independent graphics and video visibility parameters, which are used in conjunction with the brush alpha channel settings. Most of these brush attributes are equally applicable when you're drawing with a pen or adding text.

The brush tools are also used for compositing full-screen images using alpha channels. For example, by selecting a left-to-right greyscale-gradient Color Box for the graphics alpha channel, a full-screen brush can be stamped down and fade in horizontally over a colored background.

DRAWING MODES

In addition to a normal drawing mode there is Rub Thru, Erase, Hue, Colorize, Negative, Smear, Watercolor, Mix, Lighten, Darken, Smooth, Sharpen, Gamma, Contrast, and Oil Paint.

Rub Thru lets you paint the swap screen image into the main screen. The Erase mode replaces pixels with the current background color. Hue replaces the color hue of a pixel with that of the current Color Box. Colorize replaces the hue and saturation and can be used to colorize greyscale images. The Negative mode reverses the RGB value of pixels.

> You could duplicate everything that Alpha Paint does using other programs you probably already have. However, Alpha Paint puts it all there right in front of you, wrapped up in one straightforward, easy-to-use package. If you make your living with the Toaster, you need this program.

The Smear mode smudges areas of an image. Watercolor paints with the current Color Box, but blends in existing pixels. Mix is similar but uses an existing color in the image instead of the Color Box. Smooth can be used to blur the edges of an object while Sharpen enhances edges. Gamma and Contrast adjust the difference between light and dark colors. The Oil Paint mode applies an "Impressionist painting style" that mimics oil painting.

To make using things like Rub Thru a little easier, there is an "Onion Skin" option. This allows the swap screen to show thru at 25% visibility.

TV CONTROLS

The TV Controls menu includes standard image correction parameters like gamma, contrast, brightness, color, sharpness, tint, red, green, and blue. Additionally, there are special effect operators like Embossing, Negative, Posterize, Mosaic, and Oil Paint. Embossing adds an engraved look to an image. Posterize reduces the number of colors yielding a "blown-up" poster-like effect. Mosaic pixelizes the picture into squares. Negative and Oil Paint work as described previously for Drawing modes.

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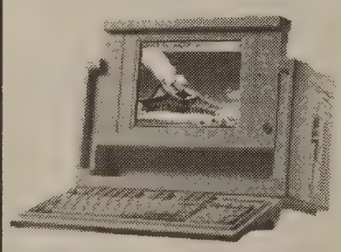

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CHANGE YOUR MIND

If you're like me and love to try many things out before committing (OK, some people call these mistakes), you'll be glad to know that Alpha Paint features multiple undo and redo, limited only by your RAM.

Moreover, redo is taken one step further with Redo+. This will reperform the last drawing operation using the existing paint attributes. So let's say you just painstakingly outlined an object by hand, but you forgot you wanted a feathered border. Well, just undo your first attempt, adjust the feathering setting, and hit Redo+. This can save you so much time when you're trying to tweak something to get "just" the right effect.

Where appropriate, Alpha Paint features preview windows that give you a rough idea of what the results of your settings will be. Definitely a time-saver and something we're seeing more and more of in newer applications.

FILE FORMATS

Alpha Paint can save images in Framestore, IFF24, and JPEG formats. Brushes can be saved in IFF24 only. Alpha Paint can load these formats, plus rendered Toaster/Montage CG pages and all IFF images, except low-res HAM6. (Note: Montage is InnoVision's Toaster CG product.)

GRAPHICS ON VIDEO

The Play menu combines some basic functions of the Toaster Switcher and Alpha Paint graphics. Generally this will be used to overlay graphics on video; however, you can also overlay video on video with an alpha channel mask. For transitions, a fixed-speed fade and cut are provided.

LITTLE BIG THINGS

Alpha Paint includes many little things designed to save time and make your life easier. For example, if you want a brush automatically pasted down in the center of the screen, just press the Return key.

The Clear-To tool lets you quickly clear the screen to any color/pattern in the palette. Often after you've adjusted a bunch of settings for a certain effect, you may want to clear out all settings and start fresh for the next one. Just hit the F1 key and everything is reset to the default settings, but the image is left untouched.

SYSTEM REQUIREMENTS

Alpha Paint requires Video Toaster 2.0 or greater, 12MB Fast RAM, 1MB Chip RAM, 10MB hard drive space, a 68030 CPU or better, and AmigaDOS 1.3+. Alpha Paint does some serious calculations and you'll want all of the horsepower you can get!

The program also supports Wacom and CalComp pressure-sensitive drawing tablets.

continued on page 327

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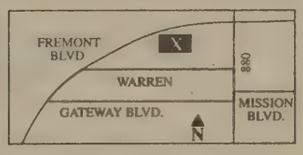

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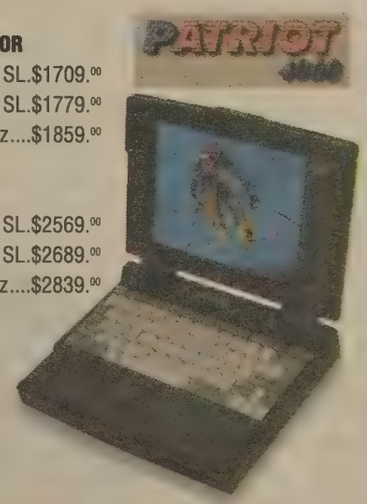

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The Daedalus Encounter

CD-ROM Reaches For The Stars

These days value-added market dynamics are driving all areas of communication and entertainment. In theatrical feature film production, the $100 million movie—once viewed as an astronomical anomaly—is on the table at almost every major studio. Kevin Costner's *Waterworld* sci-fi epic, due to hit the screens by late summer, is breaking the bank at over $140 million.

Most graphic adventure games today demand budgets of over $1 million. When Mechadeus of San Francisco produced its best-selling CD-ROM game *Critical Path* (over 100,000 units sold), its high production budget of $325,000 was justified because of its groundbreaking integration of live actors with 3-D animations, backgrounds, and effects.

Mechadeus's next title was *The Daedalus Encounter*, recently released by Virgin Interactive Entertainment for Macintosh, Windows, and (soon) 3DO. This three-disc sci-fi graphic adventure CD-ROM exemplifies the production values the new media market is demanding. *Daedalus* features expanded live action integrated with richly textured 3-D modeling, navigable QuickTime, 3-D digital ambient sound, and heightened interactivity. Its budget spilled over the $1 million mark.

THE TALENT LINE

Edutainment pioneer Mark Schlichting, who created the Living Books team at Brøderbund, has succeeded in presenting fresh and wonderful interactive pieces like the best-selling CD-ROM *Just Grandma and Me* using the voices and talents of coworkers, friends, and family members. But alas, that workaround is no longer sufficient for most other content developers. The mass-market audience that makes multimedia a paying proposition is used to television-level quality and expects professional acting and voice to come out of their pricey discs.

BY TONY REVEAUX

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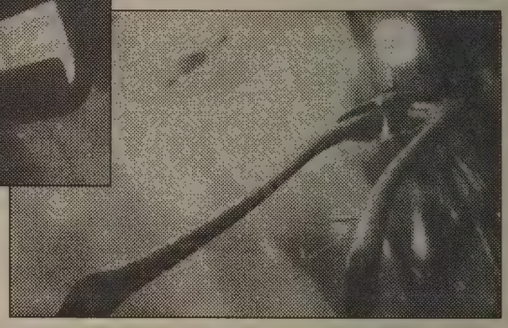
THE DAEDALUS ENCOUNTER *continued...*

The ***graphics and animation*** in *Daedalus* are achieved mostly with Autodesk's 3D Studio, and are beautiful in an ***eerie, creepy*** biomorphic language of atmospheres, structures, machines, and ***beings.***



As producers begin to add more recognizable talent value, they often must satisfy the pay scales of the Screen Actor's Guild (SAG) and the American Federation of Television and Radio Artists (AFTRA). Union performers have reportedly earned more than $4 million from appearing in interactive projects in the last year and a half. Advance notices of upcoming title releases predict a flood of stars, celebrities, personalities, and brand recognition characters.

When producers turn from spinning their own tales to hiring the pros, other economics come into play. A new Writers Guild of America (WGA) agreement with the Alliance of Motion Picture & TV Producers (AMPTP) will give professional writers a bigger share of proceeds from the interactive repurposing of their material, according to *Daily Variety.* Conversely, producers are finding it less expensive and complicated to commission original music than to license established tunes from the American Society of Composers, Authors, and Publishers (ASCAP).

DRAMATIC DAEDALUS

As "Kat," actress Eileen Weisinger did a great job in Mechadeus's *Critical Path*, but to meet the new mass market and to keep up with the competition, the company felt that they had to spring for nationally recognized talent. At that, they hardly reached the Sigourney Weaver/Harrison Ford level here. Tia Carrere (*True Lies, Wayne's World*) as Ari, and Christian Bocher (*Total Exposure, Melrose Place*) as Zack, are the contentious protagonists.

In a very cinematic opening sequence, we see the pair fight in the heat of space battle as their interceptor takes a hit and they're ejected like burnt toast. The intro then positions your player role as Casey, the shipmate whose battle injuries left you reborn a cyborg—a brain in a motile probe sphere. Most of the exploration modes are seen through the video window in your cerebral control panel in the program's well-executed animation flybys. You're sort of the R2D2 of the crew, and are called upon to make sophisticated analyses of alien artifacts and to search for and retrieve objects.

The intro reintroduces the cast as interstellar war veterans now turned independent salvagers. They discover and crash on an ailing alien spacer that will hurl them all into a flaming sun if they (i.e., you, the player) can't solve the game's intricate geometrical puzzle barriers and figure out how to get the enormous vessel back on its celestial track.

The advanced production values here demonstrate an interesting design solution. When Tia and Zack do an EVA from their ship to the alien hull, we see them in spacesuits that are 3-D models created with computer graphics, while their faces are live video files mapped behind the visors.

The graphics and animation in *Daedalus* are achieved mostly with Autodesk's 3D Studio, and are beautiful in an eerie, creepy biomorphic language of atmospheres, structures, machines, and beings. The smooth live action video is composited seamlessly into the fantastic scenes. The insectoid aliens are convincingly rendered and animated, and the special effects welltimed. The lighting on the live action was keyed and patterned to match the graphics so that the characters really seemed like they were there. Well, at least their bodies....

BLUE PLANET

It's hard enough for a good screen actor to project voice and character and action without having to continually imagine and make up an environment that isn't there, but that's just what these actors had to do, working in the twilight zone of a blue screen sound studio. Say what you will about Steven Spielberg, it takes one hell of a director to get people to react so convincingly to stuff that really isn't there as they did in *Jurassic Park.*

The blue screen process allows the producer to insert different backgrounds in a live action scene from photos, film, paintings, and computer graphics. By the use of blue and red filters in post production or live on television, male and female mattes are "married" in the final image. This is how the TV weatherperson who gesticulates in front of a blank blue screen in the studio can appear on the news pointing to animated thunderstorms on a map of Kansas. Only by looking at the studio monitor off-set can they get an inkling of where they are in the picture.

Our multimedia heroes had no such comfy reference monitor. Unlike the cast of *Aliens* who had sets, partials, flats, and practicals, Carrere and Bocher had little to work with. Just a few guides, marks, and templates to walk, run, jump, fall, and shoot from while pretending to react to the imagined alien weirdness of it.

What they really saw was blue. Thanks to the strong direction of Scott Ewers, they got through the ten straight days of the blue shoot without going spastic.

All that said, the biggest weakness in these composite productions, and certainly here in *Daedalus*, is how the talent tends to lose it. There were moments of contemplation and several action sequences that really worked and

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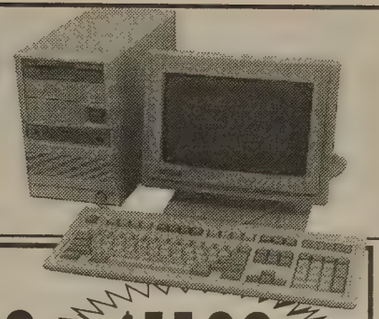

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THE DAEDALUS ENCOUNTER *continued...*

sucked you into their virtual space. Too often, though, the actors failed to convince that they were really on any alien ship, and related to each other much as if they were cruising a strip mall in Encino. Even within the comparative "Game Boy" production values of *Critical Path*, Eileen Weisinger's blue screen time was always convincing. The linear, crisis-driven story put her through some moves as frantic as some that Linda Hamilton emoted in *Terminator*, and she never lost her grip.

A questionable choice of tone in *Daedalus*, and in more other titles than I would like to admit, was the dreadful sitcom-level dialog. It's one thing to trickle in some humor for dramatic range and character-rounding—it was done perfectly in *Aliens*—but here it defeats the willing suspension of disbelief, and distances rather than draws you into the fictive premise. And the scenic artwork was so good in this CD production that I wanted to see it on the big screen of the Coronet.

THE LIFE OF GAMES

Even with these flaws, *The Daedalus Encounter* is a major step onward in the evolution of multimedia as it finds its unique voice and form. As a game, *Daedalus* is structured not unlike Trilobyte's best-selling *The Seventh Guest*, and shares a few elements of Brøderbund's *Myst*. Like *Seventh Guest*, it is an interactive linear continuity in the serial form of puzzle "gates," much like stations along a subway line, which you the player must solve one at a time in order to progress any further in the plot.

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With *Myst*, there was nobody home. In *Seventh Guest*, there were some live video "hauntings" that provided character color and atmosphere for the backstory. But in *Daedalus*, it is the live action characters that drive the continuity, and the game becomes more like a movie. That's the way entertainment multimedia is going. Which draws into question whether it is time to reexamine the antiquated traditional game structure now undergoing fusion with the 100-year-old plot-driven structure of the motion picture.

It's time for these games to grow up. In the age of the five hundred channels, as adults, *we* should be able to choose how and when we play this game that we paid for. *Daedalus* allows three levels of play skill, as do most of them. That's not far enough. We should be able to choose to "see the movie, play the movie, ride the movie" however we feel. That means if we want to, we can race and flow with the interactive movie and skip the puzzles, and always be able to save at any point. Or, which is more like the brief snatches of time here and there most of us really have to play a game, to call up any puzzle from the game's library of puzzles when that's what we feel like doing. (The puzzles in *Daedalus* are quite nicely crafted.)

Game guru Chris Crawford said it out loud in the May issue of *Morph's Outpost on the Digital Frontier*: "...the game aficionados, the guys that live and breathe the game, give you feedback. The poor slob who gets clobbered at the outset is not going to publicize his incompetence by complaining that the game is too hard. He'll just quietly remove it from his hard disk and never buy another." ■

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730MB	IDE	30730LTA	11ms	3.5"x1" $239
365MB	SCSI	30365LTS	11ms	3.5"x1" $169
540MB	SCSI	30540LTS	11ms	3.5"x1" $199
730MB	SCSI	30730LTS	11ms	3.5"x1" $269

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420MB	30420TRS	12ms	Fast SCSI-2	$179 .. $279
850MB	30850TRA	12ms	Fast ATA-2	$249 ... $N/A
850MB	30850TRS	12ms	Fast SCSI-2	$269 .. $369

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540MB	30540FBA	12ms	Fast ATA-2	$189 ....$N/A
540MB	30540FBS	12ms	Fast SCSI-3	$199 ... $299
1.08GB	31080FBA	12ms	Fast ATA-2	$319 .... $N/A
1.08GB	31080FBS	12ms	Fast SCSI-3	$429 ... $529

EMPIRE FAST SCSI-2 SERIES

1.0GB	EMP1080S	9.5ms	3.5"x1"	$588 .. $688
2.1GB	EMP2100S	8.9ms	3.5"	$889 .. $989

CAPELLA SERIES

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2.2GB	VP32210	8.5ms	SCSI	$849 ...$949

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2.1GB	XP32150S	8ms	7200RPM	$899 ... $999
4.3GB	XP34300S	8ms	7200RPM	$1499 . $1599

Grand Prix FAST SCSI-3* SERIES

4.29GB	GP34301S	8.6ms	7200RPM	$1099 . $1199

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1.0GB	M1606SAU	10ms	3.5"x1"	SCSI	$499 .. $599

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2.0GB	MC4221	8.5ms	3.5"x1"	$979	.... $1079
3.0GB	MC1936	13ms	5.25"	$859	.... $1059
4.0GB	MC3243	8.5ms	3.5"	$1549	.. $1649
9.1GB	MC1991	11ms	5.25"	$2339	.. $2539

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1.75GB	MC2217AV	10ms	3.5"	$849	..... $949
2.0GB	MC3221AV	8.5ms	3.5"	$1089	...$1189
2.0GB	MC4221AV	8.5ms	3.5"x1"	$1099	...$1199
3.0GB	MC1936AV	13ms	5.25"	$1329	...$1529
4.0GB	MC3243AV	8.5ms	3.5"	$1699	...$1799
9.1GB	MC1991AV	11ms	5.25"	$2499	. $2649

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4.0GB	MC3243W	8.5ms	3.5"	$1699	...$1979

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850MB	CFS850A	<15ms	3.5"x1"	...	$259
1.27GB	CFS1275A	<15ms	3.5"x1"	IDE	$329

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☐ Up to 16.7MB/sec Transfer Rate ☐ 256K Cache

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850MB	CFA850A	<12ms	3.5"x1"	...	$269
1.27GB	CFA1275A	12ms	3.5"x1"	IDE...	$389

FAST SCSI-2 DRIVES

				INT	EXT
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1.0GB	CFP1060S	9ms	3.5"x1"	$449	... $549
2.1GB	CFP2105S	<9ms	5400RPM	$839	.. $939
2.1GB	CFP2107S	<9ms	7200RPM	$959	.. $1059
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540MB	7540AV	12ms	3.5"x1"	.....$189
850MB	7850A	12ms	3.5"x1"	.....$235
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850MB	ST5850A	11ms	Fast ATA-2	.....$259
1.0GB	ST31220A	12ms	Fast ATA-2	..... $339

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1.0GB	ST31200N	9ms	3.5"x1"	$535	... $635
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- One Data Cartridge
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EXB-2501K Complete Kit for PC	$649/$749
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FS4000DC 2-4GB 1MB Cache 28MB/min	$1239/$1489
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EXB-4200C 4GB up to 28MB/min w/Comp	$799/$899
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INTERNAL: RUNS OFF FLOPPY PORT

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Fuji-DG90M	90 Meter	$13/$55
Sony/HP	120 Meter(DDS-2)	$29/$139
4mm Cleaning Cartridge		$20/$95

8mm Data Carts

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Maxell	2120 Cleaning Kit	$22/$100
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GIGATEK	DC2120XL up to350MB	$22/$104

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Sony	QD6250 - 250 MB	$23/$104
Sony	QD6525 - 525 MB	$29/$140
3M/Maxell	DC6150 - 150MB	$16/$75
3M/Maxell	DC6250 - 250MB	$22/$99
3M/Maxell	DC6525 - 525MB	$28/$135
GIGATEK	DC6150 - 150MB	$14/$65
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GIGATEK	DC6525 - 525MB	$24/$109
3M/GIGATEK	Magnus 1.2 / DC9120 - 1.2 GB	$45/$215
3M/GIGATEK	Magnus 2.0 / DC9200 - 2.0 GB	$59/$265
Maxell	DC-9135 - 1.3 GB	$49/$235

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Verbatim/Maxell	230MB 512 bytes/sec	$47/$219
FUJITSU	230MB 512 bytes/sec	$49/$235
KOMAG/PHILIPS	230MB 512 bytes/sec	$33/$155
OMD-230HS	230MB Pinnacle Hi Speed Media	$39/$190

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Maxoptix	1.2G-512b/s or 1.3G-1024b/s-Glass	$189
Maxoptix	1.2G-512b/s or 1.3G-1024b/s-Poly	$149
HP	1.2G-512b/s or 1.3G-1024b/s	$109
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650MB	74min Compact Disc Sony	$15.99/$75
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Centronics 50 to DB-50 3ft/6ft	$32/$42
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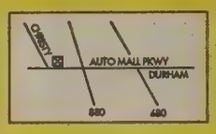

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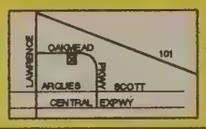

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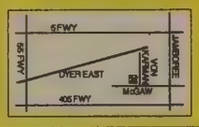

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- Specially Tuned BIOS for mach XII Motherboard
- Deluxe Minitower Case w/250W PS
- Enhanced 101 Keyboard

$499

mach X pentium System

BASIC CONFIGURATION:
- US design mach X Pentium Motherboard w/2 Year Warranty
- Supports Intel Pentium 75MHz, 90MHz, 100MHz
- PCI Bus Architecture - 4 PCI/4 ISA Slots
- 256K Level 2 - Write Back Cache
- ZIF Microprocessor Socket
- Green PC - Energy Star Compliant
- 2 High Speed Serial Ports w/16550 UART
- Enhanced Parallel Port (ECP+EPP)
- Enhanced PCI IDE, Supports MODE 3 IDE
- Specially Tuned BIOS for mach X Motherboard
- Deluxe Minitower Case w/250W PS
- Enhanced 101 Keyboard

$399

mach VI DX4-100MHz

BASIC CONFIGURATION:
- US design mach VI 486DX2/DX4 Motherboard
- Supports 486 66MHz, 80MHz, 100MHz & Pentium P24T
- Vesa Local Bus - 3 VLB/5 16bit Slots
- 256K Level 2 - Write Back Cache
- ZIF Microprocessor Socket
- 3.3 Volt/5 Volt Autotransformer Circuitry
- Supports Intel, AMD, Cyrix CPU's
- Two Year Motherboard Warranty
- Deluxe Minitower Case w/250W PS
- Enhanced 101 Keyboard

$299

Special Options

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HARD DRIVE:
Maxtor/Conner 540MB $155
Maxtor/Conner 850MB 195
Maxtor/Conner 1.0GB 295

CD ROM:
Dual Speed (NEC/Sony) $95
Quad Speed (TEAC/Sony) 165

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Resources

Calendar Of Events

Conferences, Shows, Special Events

June

June 24 Opportunities In Emerging Technologies Conference. Stanford University. CSPA. Call: Wyatt Leung, (408)777-5337; email, *wyatt_leung@taligent.com*.

June 24 Robert Austin Computer Show. Cow Palace, Daly City. Robert Austin Corp. Call: 1-800-346-0100.

June 24 Unity '95—The People Embrace The United Nations: International Culture And Technology Expo. Fort Mason, San Francisco. Call: (415)789-7673.

June 26–29 USENIX Conference On Object-Oriented Technologies. Monterey. USENIX. Call: (714)588-8649.

June 27–29 Channels For Change: Women In Technology Conference. Santa Clara. WITI. Call: (818)990-1987, email: *witi@crl.com*.

June 28 Internet Interview With Gloria Steinem. On the WWW at *http://www.irsociety.com/roundtable.html*, at 3:00 pm. Internet Roundtable Society.

July

July 2 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Club. Call: (510)783-2803 days, 447-3857 eves.

July 5 Live Internet Interview With Dee Ertukel, Senior Advisor To EMILY's List. On the WWW at *http://www.irsociety.com/roundtable.html*, at 7:00 pm. Internet Roundtable Society.

July 9–10 Mactivity/Web: The Macintosh WebMasters University Conference. San Jose. Mactivity. Call: (408)354-2500, 1-800-798-2928, *http://www.mactivity.com/macweb/mactivity-web.html*.

July 10–11 Network Outlook Conference. Burlingame. Technologic Partners. Call: (212)343-1900.

July 11–13 Mactivity '95: The Macintosh Connectivity Conference. San Jose. Mactivity. Call: 1-800-798-2928.

July 18–20 Network Multimedia Conference. San Jose. DCI. Call: (508)470-3880.

July 24–26 IC Card Expo. Santa Clara. *IC Card Systems & Design* magazine. Call: (404)618-0422.

August

August 6 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Club. Call: (510)783-2803 days, 447-3857 eves.

August 16–20 ONE BBSCON. Tampa, Florida. One Inc. Call: (303)693-5253.

August 21–22 NetWare Users Conference. San Jose. NetWare Users International. Call: (801)228-4533.

August 23–24 Netware Users Conference. San Jose Convention Center. Call: (408)761-7849.

August 29–September 1 Windows Solutions Conference And Expo. San Francisco. SOFTBANK Expo and Conference Co. Call: (415)578-6900.

JUNE 24

Opportunities In Emerging Technologies Conference

STANFORD UNIVERSITY

The CSPA, in collaboration with a couple Stanford Student Clubs, is sponsoring a conference on Opportunities in Emerging Technologies. It is divided into two sessions: Emerging Market Opportunities and Asian-American Entrepreneurship. The first session will lay out the emerging market landscape for the convergence of media, computing, and communications technologies, and will feature William Hearst of Kleiner Perkins, Michael Patrick of Fenwick & West, Jim Sha of Netscape Communications, and Curtis Wong of Corbis Productions. The second session will feature Raymond Chin of Alpine Technology Ventures, Norman Wu of Avantos Performance Systems, and Gilman Louie of Spectrum Holobyte speaking on successful case studies of Asian-American entrepreneurship in emerging software markets. The conference is taking place in the Oak Lounge Room, Tresidder Memorial Union at Stanford University from 9:00 am to 4:30 pm, and costs $45. Call Wyatt Leung at (408)777-5337 or email wyatt_leung@taligent.com for more information.

JULY 9–10

Mactivity/Web: The Macintosh WebMasters University Conference

SAN JOSE CONVENTION CENTER

Mactivity/Web is a conference for Macintosh World Wide Web developers. It will be the event for exploring the options and solutions available for building powerful Web sites based on the Macintosh OS. Mactivity/Web will host two tracks of technical sessions: one geared toward WebMasters just starting to explore the power of Macintosh Web sites, the other for advanced WebMasters and developers. The cost for the conference is $495 for two full days and evenings of sessions, hands-on tutorials, product presentations, and more. Since Mactivity/Web will be held in conjunction with Mactivity '95: The Macintosh Connectivity Conference, the cost will cover admission to both conferences. For more information or to register, set your browser to http://www.mactivity.com/macweb/mactivityweb.html or call (408)354-2500 or 1-800-798-2928.

Classes, Seminars, Workshops

June

June 23–25 UnixWare Network System Administration Class. Pleasanton. Network Resource Group. Call: (510)734-1500.

June 24 CNE Hands-On Study Group With Remote Access. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 24–25 Adobe After Effects: Digital Effects And Layering On The Desktop Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 24–25 Hands-On Video Toaster Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 25 Internet 303: A Two-Part Seminar. San Francisco. Internet Literacy Consultants. Call:

(415)469-8271.

June 25 Intro To The Internet Class. Corte Madera. The WELL. Call: (415)924-3838.

June 26 Complete Online Novell CNA Training Class. Berkeley. Cyber State University. Call: (510)253-TREK.

June 26 Intro To The Internet Class. Mill Valley. The WELL. Call: (415)388-5981.

June 26 Lotus 1-2-3 4.0 For DOS/Win Level 2 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 26–27 Incorporating Object-Oriented Methods Into Relational Databases Seminar. San Francisco. DCI. Call: (508)470-0526.

June 26–27 Novell System Supervisor 3 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 26–27 Your Mac Inside Out: Troubleshooting Basics Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 26–August 1 Intro To Excel 5.0 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 26–August 1 Intro To Microsoft Word 6.0 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 26–August 1 Intro To Windows 3.1 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 26–August 14 From Wagner To Virtual Reality: History Of Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 26–August 17 Computerized Accounting/DacEasy Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

June 27 FoxPro 2.6 For DOS/Win/Mac Level 3 Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 27 Intermediate WordPerfect For DOS Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

June 27–28 PC Repair Two-Day Hands-On Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

June 28 Hands-On Internet Training Class. San Francisco. The WELL. Call: (415)824-9394.

June 28 Intermediate Excel For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

June 28 Preparing For An Online Edit Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

June 28–29 Intermediate Auto-Architect Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

June 28–August 23 Real World Writing For Interactive Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

June 29 Enabling The Enterprise: Delivering World-Class Client/Server Applications With Microsoft Visual Basic Seminar. San Francisco. SQA, Inc. Call: 1-800-228-9922.

June 29 Excel 5.0 Win/Mac Macro Class. Emeryville. Northwest Computer Systems. Call: Cathy Day, (510)653-0808.

June 29–30 Accessing Online Services Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

June 29–August 31 Data Structures And The Standard Template Library Programming In C++ Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

July

July 1–2 Graphic Design: The Transition Into Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 3 Complete Online Novell CNE Training Class. Berkeley. Cyber State University. Call: (510)253-TREK.

July 3 WordPerfect For DOS Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 5 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

July 5 Intro To Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 5–August 16 Breaking The Sound Barrier: Multimedia Sound Production Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 6 Intro To MS-DOS 5.0/6.2, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 6 Intro To WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 6–7 Network Fundamentals Hands-On Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

July 6–7 WordPerfect 6.0/6.1 For DOS/Windows, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 6–7 MS Word Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

July 6–September 7 Object-Oriented Design For Real-Time Systems Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

July 7 Intro To Windows 3.1, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 7 Intro To Excel For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 7–8 Intro To Publisher Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

July 7–8 Intro To Windows 3.1 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

July 7–8 TeleTraffic Engineering Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

July 7–8 Getting Started With Windows 95 Class. Pleasanton. Network Resource Group. Call: (510)734-1500.

July 8 CNE Hands-On Study Group With Remote Access. Oakland. Excel Micro Solutions. Call: (510)836-2040.

July 10 Complete Online Novell CNA Training Class. Berkeley. Cyber State University. Call: (510)253-TREK.

July 10 Fox Pro 2.6 For DOS/Win/Mac, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 10 Shell Command Language For Programmers Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

July 10–11 Communications And Modem Troubleshooting Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

July 10–11 PC Memory Management Class. San Francisco. Data-Tech Institute. Call: (201)478-5400.

July 10–August 3 The Tapestry Project, Session One Class. San Francisco. San Francisco Digital Media Center. Call: (415)824-9394.

July 11 Paradox 4.5/5.0 For DOS/Win, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 11 The $79 Network Class. Pleasanton. Network Resource Group. Call: (510)734-1500.

July 11 Windows For Workgroups Class. Pleasanton. Network Resource Group. Call: (510)734-1500.

July 11–12 Troubleshooting The Mac Workshop. San Francisco. Data-Tech Institute. Call: (201)478-5400.

July 12 Networking For Beginners Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

July 12 OS/2 Warp System Administration Class. Pleasanton. Network Resource Group. Call: (510)734-1500.

Calendar Of Events *continued...*

July 12 PowerPoint 4.0 Win/Mac, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 12 PowerPoint For Beginners Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

July 12 Word 6.0 Win/Mac, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 12–14 Data Warehouse Technology Class. San Francisco. DCI. Call: (508)470-3880.

July 13 ACCPAC Plus Accounting Software Intermediate Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

July 13 Excel 5.0 Win/Mac, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 13 Excel For Beginners Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

July 13 Learn To Use The Internet For Fun And Profit Class. San Francisco. The Learning Annex. Call: (415)788-5500.

July 13 Lotus 1-2-3 4.0/5.0 For DOS/Win, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 13 Quattro Pro 5.0/6.0 For DOS/Win, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 13–19 Novel CNA Certification Preparation Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

July 14 Access 2.0, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 14 MS Office 4.2, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

July 14–16 Novell Netware 3.x Administration Class. Pleasanton. Netware Resource Group. Call: (510)734-1500.

July 15 Intro To Virtual Reality Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 15 Overview Of The ISO 9000-3 Guideline For Software Development And Maintenance Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

July 15–16 Production Management For Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 17 Excel 5.0 Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 17 Internet For Writers Class. San Francisco. The Learning Annex. Call: (415)788-5500.

July 17 Intro To Client/Server Computing In The Open System Environment Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

July 17 Paradox 4.5/5.0 For DOS/Win, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 17–18 Enabling Networks For Internet Access Class. Sacramento. Data-Tech Institute. Call: (201)478-5400.

July 17–18 SAP R/3 Objective Analysis—Is SAP Right For You? Seminar. San Jose. American Institute. Call: 1-800-345-8016.

July 17–18 WordPerfect 6.0/6.1 For DOS/Windows, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 17–August 10 The Tapestry Project, Session Two Seminar. San Francisco. S.F. Digital Media Center. Call: (415)864-3547.

July 17–August 14 The Technology Of Networked Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 18 Fox Pro 2.6 For DOS/Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 18 Internet For Artists Class. San Francisco. The Learning Annex. Call: (415)788-5500.

July 18 Microsoft Word For Beginners Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-6900.

July 18 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

July 18 WordPerfect For DOS Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 19 Advanced C/S Computing And Application Considerations Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

July 19 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

July 19 Intro To Windows 3.1, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 19 Intro To Lotus For DOS Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 19 PowerPoint 4.0 Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 19 PowerPoint For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 19 Software Licensing Agreements Contract Workshop. San Jose. Data-Tech Institute. Call: (201)478-5400.

July 19 Word 6.0 Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 20 Access 2.0, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 20 Excel 5.0 Win/Mac, Charts Class. Emeryville. NCS. Call: (510)653-0808.

July 20 Lotus 1-2-3 4.0/5.0 For DOS/Win, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 20 MS-DOS 5.0/6.2, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 20 WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 20–21 AutoCAD Level III Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

July 20–21 Capturing The Electronic Consumer Seminar. San Francisco. Institute for International Research. Call: 1-800-345-8016.

July 20–21 MS Excel Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

July 20–21 PC Repair Two-Day Hands-On Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

July 20–August 17 Women And Technology: A Road To Parity Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

July 21–22 Intro To Microsoft Word 6.0 Class. Fremont. Mission Valley Regional Occupational Program. Call: (510)657-1865.

July 21–23 Novell Netware 4.x System Administration Class. Pleasanton. Network Resource Group. Call: (510)734-1500.

July 21 & 24 WordPerfect 6.0/6.1 For DOS/Windows, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

July 24–25 Project 4.0 Win/3.0 Mac, Level 1 And 2 Class. Emeryville. NCS. Call: (510)653-0808.

July 25 Fox Pro 2.6 For DOS/Win/Mac, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

July 25 The Remote Office Seminar. Pleasanton. Network Resource Group. Call: (510)734-1500.

July 26 Excel For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 26 "Still In The Dark About Digital?" Seminar. San Francisco. Adolph Gasser Inc. Call: 1-800-994-2773.

July 26 Word 6.0 Win/Mac, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

July 26 Word 6.0 Win/Mac, Upgrade Class. Emeryville. NCS. Call: (510)653-0808.

July 27 Access 2.0, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

July 27 Excel 5.0 Win/Mac, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

July 27 Excel 5.0 Win/Mac, Macro Class. Emeryville. NCS. Call: (510)653-0808.

July 27 Paradox 4.5/5.0 For DOS/Win, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

July 27 Quattro Pro 5.0/6.0 For DOS/Win, Level

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Maxi Switch 101 Keyboard
MS Mouse
Pentium Cooling fan & Heatsink
Middle Tower Case w/250W PS

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Western Digital 1.2GB IDE HDD
ATI Mach64 w/2MB VRAM Video Card
Sound Blaster 16 MCD
Maxi Switch 101 Keyboard
MS Mouse
Pentium Cooling fan & Heatsink
Middle Tower Case w/250W PS

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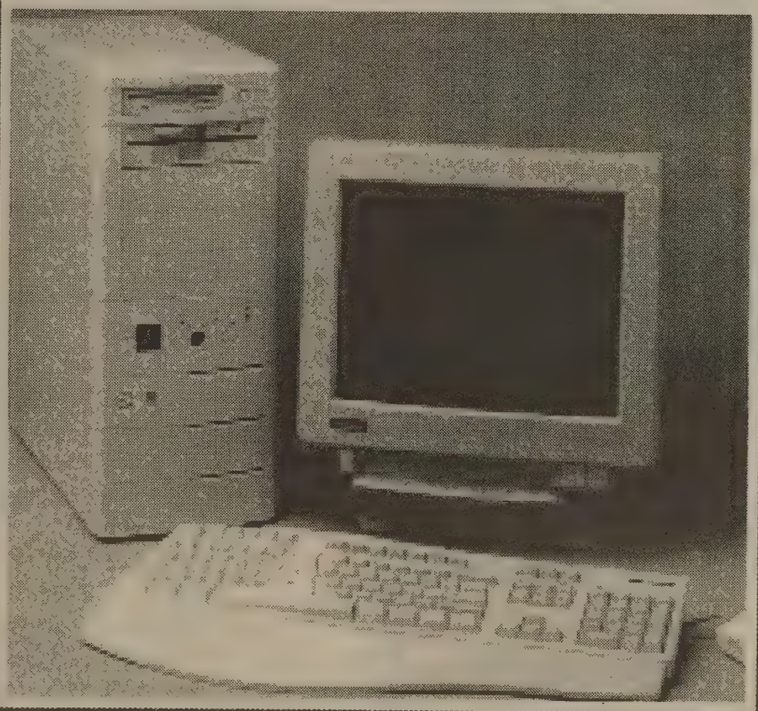

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Teac Quad-speed CD-ROM Drive
Quantum 540MB MV IDE HDD
ATI Mach64 w/2MB VRAM Video Card
Sound Blaster 16 MCD
Maxi Switch 101 Keyboard
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Middle Tower Case w/250W PS

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344 Tully Road, San Jose
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July 9 Sunday — SAN MATEO EXPO CENTER
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Sonoma Co. Fairgrounds
Sun. July 9 - STOCKTON
Civic Auditorium
Sun. July 16 - SACRAMENTO
Scottish Rite Center
Sun. July 23 - FRESNO
Holiday Inn
Sun. Aug. 6 - STOCKTON
Civic Auditorium
Sat. Aug. 12 - BAKERSFIELD
Kern County Fairgrounds
Sun. Aug. 13 - SANTA ROSA
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- HP Laser Printer Repair $425

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Luis Lopez, Owner

Resources

Calendar Of Events *continued...*

2 Class. Emeryville. NCS. Call: (510)653-0808.

July 27 Using Windows 95 With Client Server Technology Class. Pleasanton. Network Resource Group. Call: (510)734-1500.

July 28 HP Laser Printer Repair Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

July 28 Word For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

July 28–30 UnixWare Network System Administration Class. Pleasanton. Network Resource Group. Call: (510)734-1504.

July 31–August 1 Novell System Supervisor 3.12, Day 1 And 2 Classes. Emeryville. NCS. Call: (510)653-0808.

August

August–Date TBD Kodak Photo CD Prepress Seminar. San Francisco. ITS CD. Call: (415)668-4688.

August 1 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

August 2 Intro To Windows 3.1, Level 1 Classes. Emeryville. NCS. Call: (510)653-0808.

August 3 Intro To MS-DOS 5.0/6.2, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 3–4 Windows On NetWare Seminar. San Jose. Center for Advanced Professional Development. Call: (714)261-0240.

August 4 Paradox 4.5/5.0 For DOS/Win, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 5 Computer Ergonomics: Save Yourself Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

August 7 Fox Pro 2.6 For DOS/Win/Mac, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 7–31 The Tapestry Project, Session Three Class. San Francisco. S.F. Digital Media Center. Call: (415)824-9396.

August 8 Excel 5.0 Win/Mac, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 8 Lotus 1-2-3 4.0/5.0 For DOS/Win, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 9–10 WordPerfect 6.0/6.1 For DOS/Windows, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 9–11 Building Applications For Client/Server Networks Seminar. San Jose. American Institute. Call: 1-800-345-8016.

August 11 MS Office 4.2, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 12 Careers In Multimedia Seminar. San Francisco. SFSU Extended Education. Call: (415)904-7700.

August 12–13 Rescuing Your Mac: Advanced Troubleshooting For Multimedia Class. San Francisco, SFSU Extended Education. Call: (415)904-7700.

August 12 & 19 Object-Oriented Development And Process Management Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

August 14 Access 2.0, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 14 C++ For Non-Programmers Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

August 14 Paradox 4.5/5.0 For DOS/Win, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 15 Excel 5.0 Win/Mac, Level 2 Class. Emeryville. NCS. Call:

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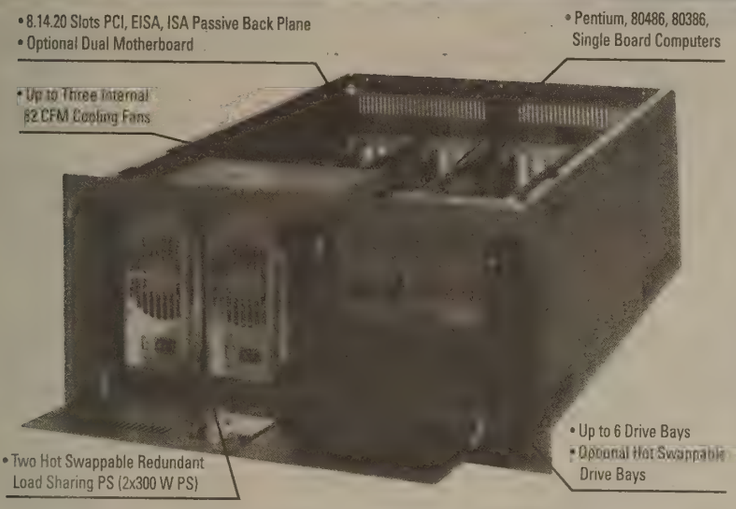
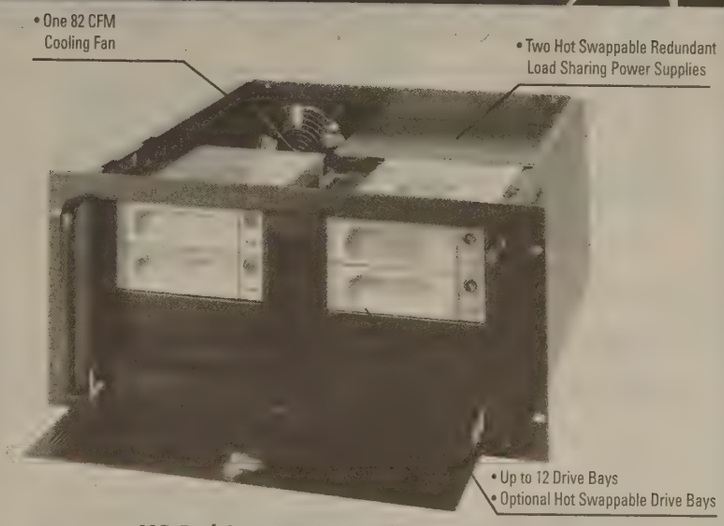


Enclosure with Hot Swappable PS & Drives



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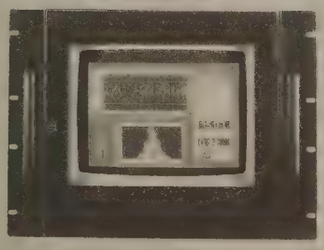
SVGA MONITOR ENCLOSURE



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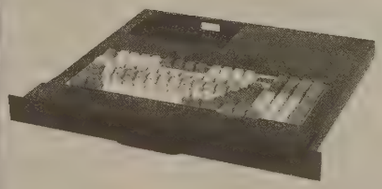

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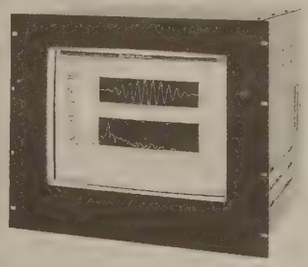

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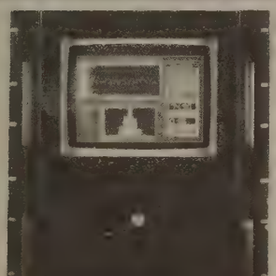

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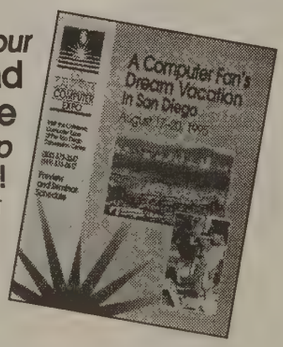

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Resources

Calendar Of Events *continued...*

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August 15 Quattro Pro 5.0/6.0 For DOS/Win, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 15 Repetitive Strain/Carpal Tunnel Injury Free Workshop. Santa Clara. Dr. Michael Currie. Call: (408)249-3000.

August 16 Intro To Windows 3.1, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 16 Word 6.0 Win/Mac, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 17–18. WordPerfect 6.0/6.1 For DOS/Windows, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 19 LAN Interface Design Class. Santa Clara. UCSC Extension. Call: (408)748-7375.

August 21 AT&T UNIX System V Release 4 Administration Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

August 21 Fox Pro 2.6 For DOS/Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 21–22 Planning And Implementing Workflow Systems And Business Process Re-Engineering Seminar. San Jose. American Institute. Call: 1-800-345-8016.

August 22 Access 2.0, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 22 Excel 5.0 Win/Mac, Charts Class. Emeryville. NCS. Call: (510)653-0808.

August 22 Lotus 1-2-3 4.0/5.0 For DOS/Win, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 22 Quattro Pro 5.0/6.0 For DOS/Win, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 22–23 NetWare User Conference. San Jose. NetWare Users International. Call: (801)429-5657.

August 23 PowerPoint 4.0 Win/Mac, Level 1 Class. Emeryville. NCS. Call: (510)653-0808.

August 23 "Still In The Dark About Digital?" Seminar. San Francisco. Adolph Gasser Inc. Call: 1-800-994-2773.

August 23 Word 6.0 Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 23 Word 6.0 Win/Mac, Upgrade Class. Emeryville. NCS. Call: (510)653-0808.

August 24 Excel 5.0 Win/Mac, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 24 Excel 5.0 Win/Mac, Macro Class. Emeryville. NCS. Call: (510)653-0808.

August 24 Intro To MS-DOS 5.0/6.2, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 25 Paradox 4.5/5.0 For DOS/Win, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 28–29 WordPerfect 6.0/6.1 For DOS/Windows, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 30 PowerPoint 4.0 Win/Mac, Level 2 Class. Emeryville. NCS. Call: (510)653-0808.

August 30 Word 6.0 Win/Mac, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

August 31 Fox Pro 2.6 For DOS/Win/Mac, Level 3 Class. Emeryville. NCS. Call: (510)653-0808.

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PC MAGAZINE, December 6, 1994

"Basic Pentium-66 at a great price. It's also on the Budget Top 20..."
PC WORLD, November 1994

"Service and Support are decent, with responsive, accurate tech support..." **PC WORLD, February 1994**

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PC WORLD, January 1994

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PC WORLD, November 1993

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- 1.0 GB fast SCSI hard drive
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- 1.44MB TEAC Floppy Drives
- Diamond Stealth 64 PCI Graphics w/2MB
- 15" Non-interlaced .28mm SVGA Color
- 2 Serial (high speed),1 parallel port
- Logitech 2-button Mouse w/Pad
- MaxiSwitch NOVA 101 Keyboard
- Desktop Case with Power Supply

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- 420MB HD w/VL Enhanced IDE controller
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- MaxiSwitch NOVA 101 Keybaord
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ProLinea MT 486DX2/50,4MB,340MB HD $1,430
DeskPro XL 566,16MB,535MB HD $3,895

IBM Computers

ThinkPads/Notebooks:

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486DX4-75,4MB,540MB HD, Color $4,928

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- EtherExpress Pro 10 Combo $98
- EtherExpress Pro / 100 PILA 8465 PCI TP $214
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- NS1764 17" 1280 x 1024 .28 DP. $779

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- 17F MXP Flat, 17" 1600X1280 .26 ..... $890
- 21F MX $1610

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- F550i 17" 1280 X 1024 .28 NI $765
- F550iW 17" 1280 X 1024 .28 NI $859
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- T2-17TS 17" .25dp 1600x1200 NI $969
- T2-20 20" .30 dp 1600X1200NI $1889
- F2-17 .28dp 1280X1024 NI $834
- F2-17EX .28dp 1600X1200 NI $927

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- XE21 / XP21 21" ..... $1885/$2315

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- 447X 17" 1600 x 1280 .25 NINT TCO $1134
- 445X 21" 1600 x 1280 .26 TCO $2449

SONY
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- 15ES 15" 1024 X 768 .28 NI $349
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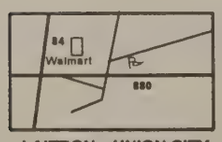

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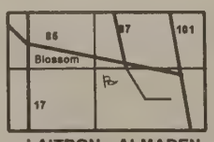

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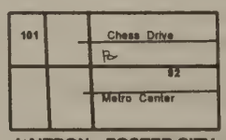

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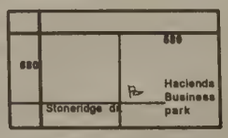

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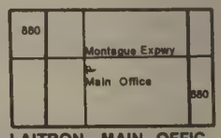

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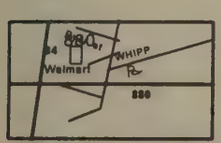

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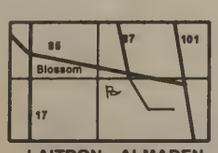

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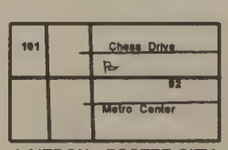

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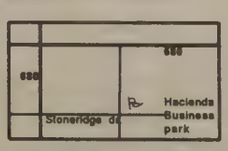

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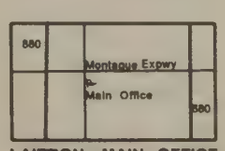

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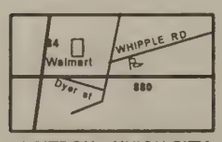

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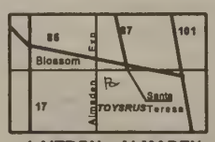

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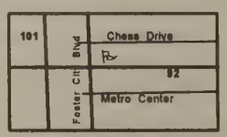

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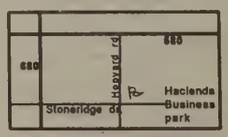

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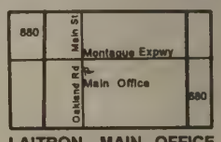

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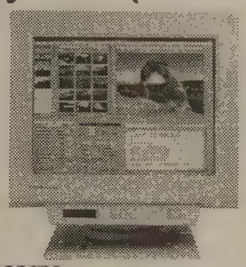

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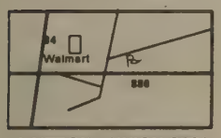

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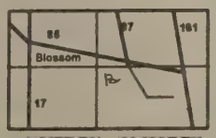

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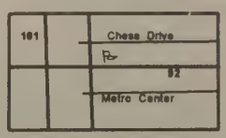

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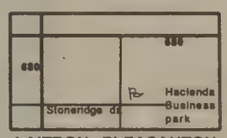

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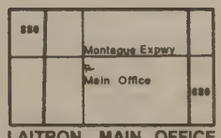

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Calypso BBS! (415)332-5760, 452-1115; (510) 538-6918, 895-6743. 8-N-1, 24 hrs., 1200–14,400. Real-time multichat, nice people, Internet email/Usenet, interactive games live. Free trial. Sysops: Larry, Moe, and Curlie. [Exp. #140.]

Club California. (415)585-3205; (510)268-8198, 724-5755. 24 hrs., 19,200. Internet email, newsgroups, IRC, chat, games, MatchMaker. Subscription/free trial. Sysops: Rand Al' Thor and Joseph. [Exp. #138.]

The National BBS/Internet Directory. (305)749-6458. Lists over 2500 BBS/FreeNet numbers, local and 1-800 access numbers, much more. [Exp. #139.]

Pathway BBS. (408)956-5600, (503)226-2665, (510)790-3127, (619)699-5750, (714)236-4247, (916)454-0947. 8-N-1, 1200–14,400. 16 lines. Get into the swing of things. Adults only. [Exp. #140.]

408

A32 BBS. (408)378-8252. 19,200. Two lines. Mac, Newton, FirstClass, OneNet member network, files, conferences. [Exp. #138.]

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The Daedalus BBS. (408)257-2029, 257-2707. 24 hrs., 14,400, 28,800. This board is not a free board but the fees are minimal. [Exp. #139.]

Data Vortex Comm. BBS. (408)464-8570. 8-N-1. Nationwide real estate database, live chat, Apogee/Software Creations dist site, more. Sysop: Michael Welch. [Exp. #139.]

The Digital Nebula. (408)469-3604. 24 hrs., 14,400. Registered TradeWars 2002, PCBoard files and more, no ratios. Free. [Exp. #140.]

The Duck's Pond. (415)586-3615. 24 hrs., 14,400. Are you into games? If so, try out the Pond. [Exp. #138.]

Escape To Other Worlds BBS. (408)956-1750. 14,400. Four lines. Online matchmaking, chat, Internet, RIME, Fido, shareware, 2GB. [Exp. #138.]

Garlique Graphics Image Center. (408)847-0665. Home of the Garlique Ladies, full Internet for members, adult CDs, instant access. [Exp. #140.]

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The Halibut BBS. (415)961-9635. Message board only. RIME and SFNet messages. Sysop: Marge Smith. [Exp. #138.]

The Hidden Lair BBS. (408)374-6992. 1200–28,800. Multichat, adult files, games, messages, 5GB+ of storage. Free. Sysops: Drakkhen and Diana. [Exp. #139.]

The Hole. (408)998-0139. 8-N-1, 24 hrs., 14,400. Pagan, Christian, Buddhist, Zen, and metaphysical BBS. National/worldwide messages, files. Free. [Exp. #139.]

The Hot Gecko BBS. (408)374-6750. DOS and Windows shareware, adult file areas. Free trial access. [Exp. #140.]

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Laser Light BBS. (408)365-7778. 8-N-1, 24 hrs., 9600–28,800. Most complete archive of PC shareware games and game demos. Free! Sysop: Rob Mueller. [Exp. #138.]

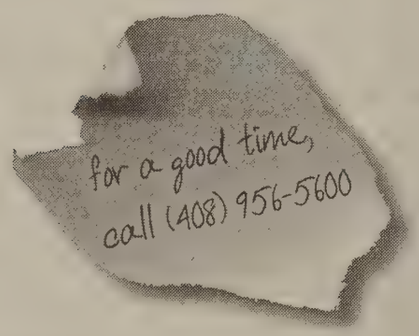
LINCS-BBS. (408)727-7227. 8-N-1, up to 14,400. Resources for special needs. Disability files, national resource directory, Usenet. $25/yr for Internet. Sysop: Trudy Grable. [Exp. #138.]

Lucid Dreams Café FC BBS. (408)354-4376. 24 hrs., 14,400. Cyberspace coffeehouse. Premium fresh-roasted coffee. Stimulating information and conversation. Free. Sysop: Robin Chew. [Exp. #138.]

Mainstreet Online. (408)224-7523. 8-N-1, 23 hrs. (down at 3 am), 300–28,800. Internet email, Usenet newsgroups, gigabytes of files, no adults-only materials. [Exp. #138.]

Matrix Online Service. (408)378-6588. Community-oriented, files, messaging, games, zines, job search, SIGs. Free access. Sysop: Darryl Perry. [Exp. #140.]

The Meating Place BBS. (408)926-6174. 24 hrs., 14,400. Nine lines. Gay/Bi, adult, email, chat, matchmaker, GIFs, XXX stories. System password: MICRO. [Exp. #140.]



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Monterey Gaming System. (408)655-5555. 14,400. 32 lines. Free Internet email, chat, contests, games, Doom/Doom II. Free trial. Sysop: Lisa Janakes. [Exp. #140.]

Mountain Mist BBS. (408)248-4140. 24 hrs., 28,800. PCBoard, RIME, ILink and Intelec email. 500M+ files, games, legal emphasis. Sysop: Christina M. Capurro, Esq. [Exp. #139.]

Mountain Retreat. (408)335-4595. 24 hrs., 14,400. FidoNet, 2.9GB HD, 20,000+ files, Turbo Pascal is the specialty. Sysop: John Jamieson. [Exp. #139.]

Once Upon An Albatross... BBS. (408)295-3949. 8-N-1, 24 hrs., 2400. Newest BBS to hit the South Bay college scene! Sysop: Christopher Reimer. [Exp. #139.]

Paradise City BBS. (408)280-6630. 2400–14,400. 25K+ newest IBM, Windows, adult files; RIP graphics, mouse support. Free. Sysop: Jim Reed. [Exp. #138.]

The Ride. (408)399-4516. 24 hrs., up to 28,800. 14 lines. All adult chat system, files, message bases, Internet. Fee. Sysop: Jayme Robinson. [Exp. #139.]

Silence Is Golden BBS. (408)526-9566. 1200–14,400. San Jose's loosest BBS. Unlimited downloads, no ratios, no security checks. Free! Sysop: Crazy Tyrone Brown. [Exp. #138.]

The Silicon Matchmaker. (408)492-9700. 24 hrs., 300–14,400. 20 lines. Personal introductions—you meet the nicest people online. [Exp. #138.]

Star League BBS. (408)847-4812. 8-N-1, 24 hrs., 14,400. Doom!, TradeWars II, and many more files. Running under PowrBBS. Free. Sysop: Mark Wilson [Exp. #140.]

The Support Network BBS. (408)259-0297. 8-N-1, 24 hrs., 2400–14,400. ADA Network, FidoNet, ABLEDATA database, Trace Research Center Library files, more. Free. Sysop: Frank Arnold. [Exp. #140.]

Thunder Mountain BBS. (408)978-0302. 8-N-1, 24 hrs., 14,400. Eight lines. Chat, files, games, MatchMaker, More. Free Family Fun. [Exp. #138.]

TIPS BBS. (408)265-7529. 8-N-1, 24 hrs., 1200–14,400. Internet email, Usenet newsgroups, latest shareware, technical support. Free/fee. Sysop: Wm Duemler. [Exp. #140.]

Tower Of Pegasus. (408)684-9042 24 hrs., (408)684-2335 4:30pm–8:00 am M–F & 24 hrs. wknds. 8-N-1, 1200–28,800. Files, EchoMail, PGP, X-Net. Free. Sysop: Marc Jacobs. [Exp. #140.]

The Underworld. (408)453-5209. 8-N-1, 24 hrs., 300–38,800. Free everything!! Files, messages, door games!! Registered LORD!! All free!! [Exp. #139.]

VidGam2 BBS. (408)737-7791. 28,800. Nine nodes. 22,500+ adult GIFs; games; utils.; free Internet newsgroups, email, FTP-mail; plus Fido. Sysop: Marcelo Hassmer. [Exp. #139.]

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IBBS West. (415)564-9440. 8-N-1, 24 hrs., 300–14,400. PC and compatibles, shareware, utils., adult GIFs, CD-ROM 13,000 files. Fee. [Exp. #139.]

Information Exchange BBS. (415)282-3823. 14,400. 2.8GB online, multiline chat, coast-to-coast RaVeNET hub. Free. Sysop: Aztek. [Exp. #140.]

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Jabba's Palace. (415)876-7022. 9:00 am–10:00 pm (tentative). 9600–14,400. Many messages, conferences, files, HK/anime/adult GIFs. New Board! Free/donation. [Exp. #140.]

The Mac Daddy BBS. (415)587-9052. 24 hrs., 14,400. Best local message area, too many nets to list, three+ CD-ROMs of Mac files. Sysops: Jonathan Mergy, Robert Pomon. [Exp. #139.]

Marinfo BBS. (415)383-9226. 8-N-1, 24 hrs., 2400–14,400. Marin's community information center. Email, Usenet, chat, more! Mac/Windows GUI. Free/fee. [Exp. #138.]

The Mother Ship. (415)665-5496. 8-N-1, 24 hrs., 14,400. How to legally stop paying federal income tax, leading-edge consciousness. [Exp. #139.]

The Nerdshack. (415)681-1724. 8-N-1, 24 hrs., 14,400. Internet email and news, chat, files, games, other nerdly fun! Free. Sysop: Porter Venn. [Exp. #140.]

NiteLite Remote BBS. (415)965-4474. 8-N-1, 24 hrs. FidoNet/Internet echo/email, aviation/space/UFOs, role players collection. Free/donation. Sysop: Byron McKay. [Exp. #139.]

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Recovery BBS. (415)255-2188. 8-N-1, 24 hrs. Dedicated to 12-step recovery programs: AA, NA, Al-Anon, OA, etc. Fido 1:125/9. Free. Sysop: Rich Gorin. [Exp. #140.]

Space BBS. (415)323-4193. 28,800. 15 lines. Internet email, telnet, ftp, gopher access; Usenet; much more. Sysop: Owen Hawkins. [Exp. #139.]

TamTech BBS. (415)759-5529. 8-N-1, 24 hrs., 2400–14,400. New BBS dedicated to quality shareware, freeware files for IBM compatibles. Free. [Exp. #138.]

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510

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Computer Addiction. (510)278-2287. 8-N-1, 6–10 pm, 2400–14,400. We have shareware, networks, adult, online programs, and much more. [Exp. #139.]

DigitalCity. (510)799-7917 8-N-1, 14,400. Information, entertainment, Internet, and more featured services. Bay Area. [Exp. #139.]

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Gold Diggers BBS. (510)568-7807,,,23,23. 24 hrs., 2400–38,400. IBM, Atari ST, Amiga, Mac, files, games, and messages. $10/year. Sysop: Harry H. Goldberg. [Exp. #140.]

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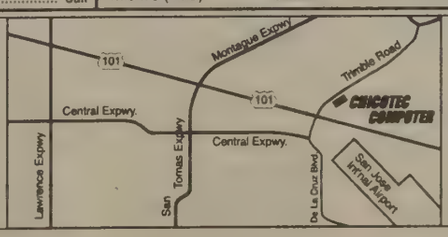

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707

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916

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EBS MicroSystems. (916)247-1232. 8-N-1, 24 hrs., 300–28,800. 10 lines. IFDC FileGate 5000 new files a month. FidoNet/PC catalog. Sysop: Bruce Knapton. [Exp. #139.]

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Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp. #143.]

Bay Area Association Of Entrepreneurial Software Engineers. Meetings: 1st Tues., 6:30 pm, 1401 Red Hawk Cir., #L108, Fremont. Dinner, lectures, discussion, brainstorming, networking, product development, financing, marketing, distribution. Call: Dr. Ipser, (510)494-8765. [Exp. #143.]

Bay Area Video Coalition. A place for independent videomakers to communicate with each other and the larger media community. $10 for nonmembers. Call: Anne Etheridge, (415)861-3282. [Exp. #140.]

Black Data Processing Associates, Silicon Valley Chapter. Meetings: 4th Thursday, 6:30 pm, Amdahl Corp., Bldg. H, 1240 E. Arques Ave., Sunnyvale. National network of DP professionals, educators, students, and vendor reps. Call: Willie Mackey, (408)280-7624 or email: *wjmackey@bdpabac.com* . [Exp. #140.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification; topical programs, seminars, job bank. Call: (408)365-9815. [Exp. #142.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. Provides resources for self-service testing, prototyping, and porting on many different platforms. Call: (408)494-8378. [Exp. #143.]

Computer Professionals For Social Responsibility/Berkeley Chapter. Meetings: last Sun., 3:00 pm, BMUG Offices, 2055 Center St., Berkeley. Meetings are open to the public and free. Call: Karen, (510)987-0567 or *cpsr-berkeley@cpsr.org* . [Exp. #140.]

Computer Software Industry Association. An association working to keep California safe for the software industry. Call: Kaye Caldwell, (408)479-8743 or email: *kaye@ix.netcom.com* . [Exp. #143.]

Independent Computer Consultants Association, Northern California Chapter. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers. Call: (415)399-0305. [Exp. #143.]

International Interactive Communications Society. Meetings: 2nd Tues. Professional association for individuals involved in multimedia, from marketing to graphics and programming. Call: (415)553-2202. [Exp. #142.]

National Writers Union. Meetings: 1st Wed., location changes. Monthly meeting for professional technical writers. Call: Andreas, (415)333-0921 or email: *andreas@netcom.com* . [Exp. #140.]

North Bay Information & Technology Association. Meetings: monthly, North Bay's premier trade organization for software and information technology professionals. $20 for nonmembers. Call: 1-800-457-5570 or (415)382-1108. [Exp. #141.]

Rexx Language Association. A consortium of those who deal at some level with the Rexx language. For membership info send name and address to *pjt@wrkgrp.com* or RexxLA Membership, 6300 N. River Rd., Ste. 501, Rosemont, Ill 60018; fax (708)696-2277. [Exp. #140.]

San Francisco ACM SIGGRAPH. Meetings: 3rd Fri., 8:00 pm, Computer Arts Institute, 310 Townsend St., Suite 230, San Francisco. Computer graphics and animation across a variety of industries including film, multimedia, and video games. Call: (415)642-9605. [Exp. #138.]

Society For Technical Communication, San Francisco Chapter. Meetings: 3rd Wed., 6:00, program at 6:45 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. Job listings, guest speakers, technical publications competition, newsletter. Call: (415)985-7121. [Exp. #139.]

Society For Technical Communication, Silicon Valley Chapter. Meetings: 3rd or 4th Thurs., 5:30 pm refreshments, 6:30 pm dinner, 7:15 dessert. Sunnyvale Hilton, 1250 Lakeside Dr. (off Lawrence Expressway at 101). Guest speakers, special interest groups, networking, job listings, newsletter. Call: (408)737-9426. [Exp. #143.]

Software Forum (formerly SEF). Meetings: 3rd Wed., 6:30 pm, Elk's Lodge, 4249 El Camino Real, Palo Alto. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Call: Barbara Cass, (415)854-7219. [Exp. #142.]

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- Internal Regulator board can deliver +5, +12 @ 1.5A

HSC# 15245 Low-Profile 5.25" Drive Case **$17.95**

Computer Parts Specials!

A. Western Digital WD1003V-MM1 MFM Disk Controller
- New in box with inst. 16-Bit, No Floppy controller.

HSC# 15362 **$9.95**

B. Miniscribe 8425 Hard Disk -- MFM 21 MB 5.25" HH
- Four Heads, 615 Cyls, 17 Sectors, New, 90-days

HSC#15354 **$17.50**

C. 3.5" Floppy Drive Adapter Bracket for 5.25" bay
- Includes hardware, faceplate, connector adapters

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Connect with LapLink!

- LapLink Release III by Traveling Software
- Links two computers via Serial or Parallel Ports
- Transfer Data at 200K to 500KBPS
- Complete Universal SIO/PIO Cable Set included
- Full Documentation
- 3.5" & 5.25" Versions Included

HSC# 15361 **$19.95**

Handy Power Supplies

A) Switching power supply rated at 5VDC, 3A, Measures 2.75 x 3.25 x 5.25", IEC receptacle for universal (100 - 250VAC, 47 - 63 Hz) input, IEC cord not included, 6' Output cord with DIN plug
New in box. HSC#14996 **$5.95**

B) Linear supply rated at 12VDC @ 1200 mA. Input is strapped for 240 VAC input, use as is with 110VAC for lower voltage output, or re-strap it for 110VAC use at 12VDC. Measures 2.5 x 4 x 6.5", IEC cord not included.
HSC# 14980 **$5.95**

C) Standard 6' IEC power cord for use with above supplies, misc. colors & styles, used. HSC# 80119 **$.99**

D) Multi-output linear supply rated at 5VDC @ 600mA, +12VDC @ 250mA, -12VDC @ 250mA, 110VAC input, measures 2.5" x 3" x 4.75", generous 4' AC input cord, 5-pin DIN output cord, HSC# 15137 **$14.95**

E) Same as "D" above, only 5VDC @ 500mA, +12VDC @ 1A
HSC# 15139 **$9.95**

Multimedia Speakers

- Two styles to choose from, both new in OEM box
- White plastic enclosures, grey grilles
- MSS-1000 has Volume control, Bass boost switch, uses 3 C-cells per side, measures 3.5" x 3.5" x 5"
- MSS-2000 has Volume control, Bass & Treble boost switches, uses 2 C-cells / side, measures 3.75" x 4" x 6"

MSS-1000 HSC# 15127 Pair/ **$6.95**
MSS-2000 HSC# 15126 Pair/ **$8.95**

Huge SCSI Hard Drive

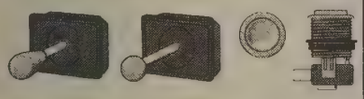
- Fujitsu M2266S Full Height 5.25" Hard Drive
- 1.2 Gigabyte (1.08 GB Formatted)
- SCSI Interface (SCSI-II Capable)
- 14.5 mS avg. access time
- Great for File Server
- Looks like new, 90-day warranty

HSC# 15365 **$299.00**

Arcade Game Controls

- Heavy-duty switch-type joysticks, made by Wico
- New in box, 10A Microswitch contacts
- Mounting flange 3" x 3.5", stick with knob is 3.25" high
- Choice of red or black teardrop or red ball knobs

HSC# 15227 Red Teardrop HSC# 15228 Black Teardrop
HSC# 15230 Red Ball Knob **Your choice $6.95**



- Heavy-duty "fire" buttons, made by Wico
- New, 10A Microswitch contacts
- Mounting flange 1.25" dia., mounts in 1.125" hole
- Nicely dished button, choose from several colors:

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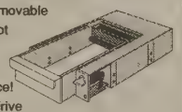
Your Choice $1.95 ea.

IDE Docking Bay



- Makes 3.5" IDE Drives removable
- Fits in 5.25" half-height slot
- Plastic construction
- Remove drive for security
- New in box, New Low Price!
- Power interlock protects drive
- Includes data & power connections

HSC# 15304 **$29.95**

Network Cable Special

- Dual Workstation Installation Kit
- Two high-quality 10' RG-58 coax BNC cables
- Two BNC tee's
- Two BNC 50Ω terminators
- One BNC coupler
- Enough to cable two Thin-net workstations to the wall-plate distribution point

HSC# 14967 **$9.95**

Tektronix Test Equip.

- Previously-owned, tested Tektronix Scopes & Plug-ins
- In-stock items as of press time, call for current selection
- Mainframes:

7603	100MHz 3-bay	$195
7704A	200MHz 4-Bay	$325
7834	400MHz Storage 4-Bay	$800
7844	400MHz Dual Beam 4-bay	$695

- Vertical Amplifier Plug-ins:

7A13	150MHz Differential Comp.	$400
7A16A	225MHz 5mV-5V Single Trace	$100
7A24	350MHz 5mV-1V Dual Trace	$400
7A26	200MHz 5mV-5V Dual Trace	$175
7A29	1GHz 10mV-1V Single Trace	$625

- Timebase Plug-ins:

7B10	2nS-.2S 1GHz Triggering	$325
7B15	2nS-.2S Delaying, Delta-T	$350
7B71	2nS-5S Delaying, x1, x10	$125
7B85	1nS-5S Delaying, x1, x10	$250
7B92A	.5nS-.2S Dual, Delay	$300

- Miscellaneous Plug-ins:

7D11	100nS-1S Digital Delay	$195
7D13A	3.5 Digit DMM, CRT R/O	$125
7D15	225MHz Universal Counter, R/O	$275
7T11	0pS-5mS Sampling Sweep Unit	$750

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- Racal Interlan 16-Bit Ethernet Cards
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- NE2100 Compatible, NI6510 Compatible
- Handy 5-pack contains 5 cards, 1 Manual and 2-disk software pack)

HSC# 15364 **$149.95** / 5pk.
- Other Network Cards Avail. -- Call for details

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NEC CDR-55JD 2X-Drive HSC# 15386 **$99.00**
NEC CDR-510 3X-Drive HSC# 15327 **$139.95**

Computer Case Close-out!

- Mini Tower Case (no power supply) 16.25" x 6.75" x 13.25"
- Hardware kit, stand, One 5.25" bay, two 3.5" bays

-or-

- Baby-AT style Desktop Case, 16.5" x 17" x 6.75"
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Baby-AT Style Case HSC# 15355 **$34.95**

Trackball for Mac!

- Mouse Systems A³ Trackball for ADB-type Mac's
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HSC# 15432 **$27.50**

386 Motherboard, CPU's

- "Baby AT" Size 386DX-33 Motherboard, no CPU
- 64K Cache included, SIMM Sockets for 8 modules
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- Chips & Technology Chipset, Co-processor Socket
- New in Box, with Book, 90-day Warranty
- Two speeds of CPU chips available

HSC# 15359	386DX Motherboard	$24.95
HSC# 15375	386DX-25 CPU w/ 50MHz Osc.	$19.95
HSC# 80357	386DX-33 CPU (Limited Avail.)	$29.95

HiFi Speaker Special!

- 40W Max, 20W RMS Woofer, 4Ω
- 5.5" dia. mounting, 1.7 lb. overall weight
- Black Injection-molded Graphite Cone
- Foam Suspension, Plastic Trim Ring
- Two-way Crossover Network with connection panel from same speaker system, freq. unknown

5.5" Woofer, new HSC# 15295 **$9.95**
Crossover, new HSC# 15296 **$3.95**

WORM-drive Project

- Maxoptix RXT800S internal full-height 5.25" drive
- 800 MB Write Once, Read Many (WORM) Optical Drive
- Customer returns, some work, some don't...
- As-is, no returns or exchanges...perfect for experimenter
- SCSI Interface, we have no other info.
- Driver software available in Corel SCSI! package
- Sorry, we don't have media yet, but we're looking!

HSC# 15209 **$19.00**

Tiny Trackball for DOS!

- Mouse Systems NewPoint Trackball for DOS/Windows
- Portable Trackball for the Laptop on the go!
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- 100% DOS and Windows compatible
- Mini-trackball with two buttons, ergonomic shape
- Clamps to keyboard, comes with padded carrying case
- New in box with software, 90-day warranty

HSC# 15433 **$19.95**

Remote Control for your Computer!

- Infrared Remote operates your computer from 50 feet
- Perfect for sales presentations, training, demonstrations
- Serial Interface (IBM version) or ADB (Mac version)
- Handheld remote is 7" x 2.5" x .5"
- Included software provides screen pointer for emphasis
- Keystroke mapping table can be customized, saved
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- Like using a TV set remote control (easy to set-up, use)

HSC# 15240 IBM Remote Keyboard **$29.95**
HSC# 15241 Mac Remote Keyboard **$39.95**

Laser Diode

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- 3 to 4 mW at only 75 - 100mA of current!
- 670nm wavelength (visible red)
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- Provides easy way to keep multiple computers in synch
- Fast and efficient, transfers only the changes
- Works with modems, cables or diskettes
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- Prevents accidental overwrites, can remotely copy

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USER GROUPS

AMIGA

AGA. Meetings: 7th of each month, 7:00 pm, SF State University. Graphics users group for all Amiga users of 2-D, 3-D, animation, multimedia, and video software. Call: Ollie, (415)863-8792. [Exp. #140.]

AUM—Amiga Users Of Marin. Meetings: 3rd Tues., 7:30 pm. College of Marin, Science Center, Room 191, Kentfield. Call: (415)924-5384. [Exp. #140.]

AWEST Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415)474-1164. [Exp. #142.]

FAUG—First Amiga User's Group. Meetings: 1st Tues., 7:30 pm, HT Electronics, 275 N. Mathilda Ave., Sunnyvale. Q&A, new product demos, public domain software. Call: Mike Fischer, (415)855-9816, BBS (415)341-7566, *mikef@vid.hp.com* . [Exp. #140.]

RAACOON (Redding Area Amiga Commodore Owners/Operators Network). Amiga/Commodore 64/128 support group. $25/year including BBS access. BBS (916)247-1232. Call: Jeff King, (916)221-2651. [Exp. #142.]

RE-Amiga—Redwood Empire Amiga Users Group. Meetings: 2nd Tues., 7:30 pm, Sonoma State University, Darwin Hall, Rm. 121, 1801 East Cotati Ave., Rohnert Park. Call: (707)523-9978 or BBS (707)539-6944. [Exp. #140.]

TOGA—The Other Group Of Amigoids. Meetings: 4th Sat. (Sun. in April), 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Call: Lawrence Brown, (408)744-0162; Randy Abel, (408)356-9405. [Exp. #138.]

APPLE

PAUG—Peninsula Apple User Group. Meetings: 3rd Thurs., 6:30 pm, Computer Attic, 2750 El Camino Real, Redwood City. Beginners and advanced, question and answer, new product demos, public domain software. Call: Ted Wagner, (415)345-0751. [Exp. #140.]

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #141.]

ATARI

ABACUS—Atari Bay Area Computer Users Society. Meetings: 1st Sat. 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games. PD software, MIDI, applications. Call: Roger Sinasohn, (415)469-7924. [Exp. #139.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp. #138.]

CAD

MAUG—Marin AutoCAD Users Group. Meetings: 1st Thurs., 6:30 pm, Autodesk, 111 McInnis Pkwy., Demo Rm., San Rafael (next to Embassy Suites). Call: Priscilla Mills, (415)453-4480. [Exp. #142.]

San Francisco AutoCAD User's Group. Meetings: 1st Mon., 6:00 pm, SFSU Downtown Center, 425 Market St., San Francisco. Door prize every meeting. Call: (510)420-0925. [Exp. #143.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. (510)531-3734 or 793-7868. [Exp. #143.]

CWEST C64/128. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415)626-9946. [Exp. #142.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Call: (510)689-3224. [Exp. #143.]

RAACOON (Redding Area Amiga Commodore Owners/Operators Network). Meetings: Amiga/Commodore 64/128 support group. $25/year including BBS access. BBS (916)247-1232. Call: (916)221-2651. [Exp. #142.]

DESKTOP PUBLISHING

Bay Area Corel Artists And Publishers (BAYCAP). Meetings: 1st Mon. (2nd if holiday), 7:30 pm, Varian Associates, Bldg. 7, 3075 Hansen, Palo Alto. $5 for nonmembers, membership is $35/year. Call: (408)252-5586. [Exp. #143.]

BMUG Desktop Publishing And Design SIG. Call: Les Cowan, (415)641-6033. [Exp. #138.]

Redwood Computers Desktop Publishing Training Center. Classes in programs such as Photoshop, Illustrator, QuarkXPress, PageMaker, CorelDraw. Call: (707)795-1700. [Exp. #139.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor—near 1st and Mission, San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp. #143.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, beginner's, Visual Basic, education/entertainment, and more. Call: (510)943-1367. [Exp. #142.]

EastBay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Montclair. All microcomputers, MS-DOS, CP/M. Call: (510)653-2627, 8:00 am–10:00 pm. [Exp. #143.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556. [Exp. #143.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm, Napa High School Lecture Hall, 2475 Jefferson St., Napa. Call: Lee Schwab, (707)257-2675. [Exp. #138.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, Meikle-john Hall, Room 2002, CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Swap starts at 7:00. Call: (510)538-2449 or 276-6450. [Exp. #138.]

PC Users Group Of The Redwoods. Meetings: 2nd Thurs., 6:30 pm, Santa Rosa Veteran's Memorial Building, East Dining Room, Maple Ave., Santa Rosa. Call: (707)527-USER; or Mel Del Gallo, (707)571-0373. [Exp. #141.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, Rec Room, 222 Laurel St., San Carlos. DOS and CP/M libraries. Call: (415)593-9981. BBS (415)571-9259. [Exp. #138.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm. 110 Pacific #153, San Francisco. For those who use computers in business. Visitors $10. Call: Jordan Rosenberg, (415)788-5338. MCI Mail: 425-1545. [Exp. #138.]

San Francisco Computer Society. Meetings: 4th Mon., 7:00 pm, Presbyterian Church, 1329 7th Ave., San Francisco. CPM and DOS, novices welcome. Call: Bob Forsberg, (415)885-6202. [Exp. #143.]

San Francisco PC Users Group. Meetings: 3rd Tues., 6:15 pm SIGs, 7:30 pm General Meeting. St. Mary's Conference Center, 1111 Gough St., San Francisco. Call: (415)346-2644, events; Kendall Callas, (415)821-1310; Loyd Cribs, (415)751-5219. [Exp. #143.]

Software Forum (formerly SEF) Business Operations SIG. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Mike Schmit, (408)244-6826. [Exp. #141.]

Software Forum (formerly SEF) International Software SIG. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Charlie Pfefferkorn, (408)923-7570. [Exp. #141.]

South Bay WordPerfect User Group. Meetings: 4th Tues., Saratoga Community Library, Fruitvale and Saratoga Ave., Saratoga. WordPerfect product presentations and education. Mainly Windows. Free. Call: Scott Maiden, (408)253-4591. [Exp. #139.]

Stanford Palo Alto PC User's Group. Meetings: last Wed., 7:30 pm, Varian, 3075 Hansen Way (off Page Mill Road), Bldg. 7, Auditorium, Palo Alto. Call: (415)329-8252. [Exp. #143.]

INTERNET

Old Town News & Coffee Internet Users Group. Meetings: every Thurs., 7:00 pm, Old Town News & Coffee, 926 Grant Ave., Novato. Hooked staff on hand to discuss setting up Web pages. Call: (415)897-4419 or *oldtown@hooked.net* or *http://hooked.net/users/oldtownnews* . [Exp. #143.]

Software Forum (formerly SEF) Internet SIG. Meetings: 2nd Wed., 7:30 pm, Sun Microsystems, 2750 Coast Ave., Bldg. 6, Mountain View. $10. Call: (415)390-9477. [Exp. #141.]

LEGAL

BMUG Law SIG/ Law SIG South. Meetings: 2nd Wed., 6:00 pm, Nossamen Guthner Knox & Elliott, 50 California St., 34th Fl., San Francisco. Call: Randy, (916)661-2280 or *rbs@aol.com*; or Ted, (415)383-4783 or *tllindberg@aol.com* . [Exp. #143.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed., odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St. Brown bag meetings. Call: (415)421-5650. [Exp. #142.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)263-0398. [Exp. #141.]

BMUG—Berkeley Macintosh User Group. Meetings: every Thurs., 6:00 pm, Warren Hall, Rm. 22, UC Berkeley campus. Call: (510)549-BMUG. [Exp. #143.]

BMUG West. Meetings: last Mon., 6:30 pm, San Francisco Exploratorium. Call: (510)549-BMUG. [Exp. #143.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft School, 2200 Parish Dr., Walnut Creek. Get together with Mac and Performa users. Enjoyable SIG meetings. Call: Tom Bacon, (510)945-4548. [Exp. #142.]

International Macintosh Users Group (IMUG).

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15" 1280x1024 .28 ..... $325
17" 1280x1024 .28 ..... $625

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17" 17SF 1280x1024 .25 .. $865
20" 20SE 1280x1024 .30 .. $1825

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BIOS	AMI	AMI	AMI	AWARD (Flash BIOS Optional)	AMI (Flash BIOS Optional)
Voltage	5V	5V	5V, 3V	5V, 3V	3V
Energy Saving	NO	NO	YES	YES	YES
Processors (SX/DX/DX2)	All Intel/AMD Cyrix (M7 series)	All Intel/AMD Cyrix (M7 series)	All Intel/AMD Cyrix (M7 series) **DX4-100** DX2-80	All Intel/AMD Cyrix (M7 series) **DX4-100** DX2-80	**INTEL Pentium P5-90MHz P5-100MHz**
Max. Memory	128MB (30 pins)	128MB (30 pins)	128MB **(72 pins)**	128MB **(72 pins)**	128MB **(72 pins)**
Max. Cache	256K	256K	1MB	1MB	512K
Expansion Slots	2 VESA BUS 6-16 bits ISA BUS	2 VESA BUS 6-16 bits ISA BUS	3 VESA BUS 5-16 bits ISA BUS	3 PCI BUS 1 PCI/ISA BUS 4-16 bits ISA BUS 2 VESA BUS	4 PCI BUS 2 VESA BUS 5-16 bits ISA BUS
CPU Socket	Standard	Ziff (overdrive)	Ziff (overdrive)	Ziff (overdrive)	Ziff (overdrive)
Bus Master	2 Slots	2 Slots	3 Slots	6 Slots	4 Slots
Dimension	8.7" X11"	8.7" X11"	8.7" X11"	8.7" X11"	8.7" X13"
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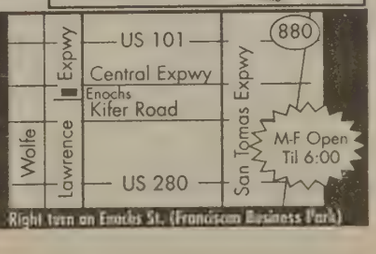

USER GROUPS cont...

Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Call: Roger Sherman, (415)859-5146. [Exp. #143.]

Macs Of Marin. Meetings: last Wed., 7:30 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 7:30, meeting 8:00, members free, nonmembers $5. Call: Richard, (415)485-5596. [Exp. #140.]

PAUG—Peninsula Apple User Group. Meetings: 3rd Thurs., 6:30 pm, Computer Attic, 2750 El Camino Real, Redwood City. Beginners and advanced, question and answer, new product demos, public domain software. Call: Ted Wagner, (415)345-0751. [Exp. #140.]

P.I.E. Macintosh Special Interest Group. Meetings: 2nd Thurs., 7:15 pm, Lynbrook High School, Rm. 32, 1280 Johnson Ave. (btw. Bolinger & Prospect), San Jose. Call: Mickey Schumacher, (408)993-9363. [Exp. #139.]

San Leandro Apple Eaters Users Group (MUG). Meetings: 1st Thurs., 7:30 pm, San Leandro High School, Rm. 204, 2200 Bancroft Ave., San Leandro. Call: Stan (510)351-3973 or Ed (510)651-8521. [Exp. #140.]

Software Forum (formerly SEF) Macintosh SIG. Meetings: 3rd Tues., 7:00 pm, Apple Computer, R&D Bldg. 4, 4 Infinite Loop, Cupertino. $10. Call: Jeff Cherniss, (408)358-5150. [Exp. #142.]

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #141.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Beginners to experts; library, newsletter, SIGs, and a BBS. Call: Jerry, (510)828-0959. [Exp. #142.]

MARKETING

Software Forum (formerly SEF) Marketing SIG. Meetings: 4th Thurs., 7:00 pm, Cubberley Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Bill Ryan, (415)615-7906. [Exp. #141.]

MULTIMEDIA

Macromedia User Group. Meetings: 1st Tues., 6:00 pm, 600 Townsend St. at 7th, San Francisco. For multimedia developers of all levels who use Macromedia products. $5. Call: (415)252-2295. [Exp. #141.]

Software Forum (formerly SEF) Multimedia SIG. Meetings: 1st Thurs., 7:00 pm, Center for Software Development, 111 W. St. John St., Suite 200, San Jose. $10. Call: Dave McCutcheon, (415)506-4238 or Charlie Pfefferkorn, (408)923-7570. [Exp. #143.]

NETWORKING

Apple Network Manager's Association. Meetings: 3rd Thurs., 5:30 pm, Syntex Laboratories, 3401 Hillview Ave., Palo Alto. A forum for discussing problems and solutions associated with managing mixed environments with AppleTalk networks. Call: Bill Woodcock, (510)843-6369, email *woody@zocalo.com*, for directions. [Exp. #143.]

Software Forum (formerly SEF) Client/Server SIG. Meetings: 4th Tues., 7:00 pm, Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Patrick O'Brien, (415)726-4664. [Exp. #141.]

NEXT

BANG—Bay Area NeXTStep Group. Meetings: 3rd Thurs., 7:00 pm, Stanford Linear Accelerator Center, 2725 Sand Hill Rd., Menlo Park. For NeXTStep/OpenStep users, technical support questions, demos, development tips. Call: Mike Gabrys, (415)327-BANG; email: *info@bang.org*; World Wide Web: *http://www.bang.org/*. [Exp. #142.]

NOVELL

Novell User Group Of Monterey. Meetings: 3rd Thurs., 40 Ragsdale Dr. in Ryan Ranch off Hwy 68. Call: (408)645-2475. [Exp. #140.]

OS/2

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:30 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. For anyone interested in OS/2. Presentations, demonstrations, question and answer session. Call: (510)945-7565 ext. 611. [Exp. #138.]

PARADOX

bapals (Bay Area Paradox User Group). Meetings: 4th Tues., 5:00 pm, 799 Market St., 8th Floor, San Francisco. Call: (415)995-4688. [Exp. #142.]

PEN

Software Forum (formerly SEF) Mobile/Wireless Computing SIG. Meetings: 4th Wed., 7:00 pm, Cubberley Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: Dick Roistacher, (415)591-8236. [Exp. #141.]

Stanford Newton User Group. Meetings: 2nd & 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Call: Flash Sheridan, (415)462-9203 or *FlaSheridn@rahul.net*. [Exp. #139.]

PROGRAMMING LANGUAGES

Software Forum (formerly SEF) C/C++ SIG. Meetings: 4th Fri., 6:15 pm, UC Santa Cruz Extension, Oxford Business Park, 3120 De La Cruz Blvd. (Trimble at 101), Santa Clara. $10. Call: Marian Corcoran, (408)973-1662. [Exp. #141.]

Software Forum (formerly SEF) Visual BASIC SIG. Meetings: 2nd Thurs., 7:00 pm, Cubberley Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. Free tutorial 6:00 pm. $10. Call: Alan Colby, (415)851-4567. [Exp. #142.]

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Call: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #140.]

SILICON GRAPHICS

Bay Area Silicon Graphics Users Group—BASGUG. Meetings: 3rd Tues., 7:00 pm, SF Academy of Art College SGI Lab, 79 New Montgomery St. at Mission, San Francisco. Dedicated to providing advanced information and education for SGI systems. Call: Doug Cain, (415)346-6150. [Exp. #140.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Call: Fred, (510)530-8335. [Exp. #138.]

UNIX

AT&T UNIX Computer Users Group. Call: Thad Floryan, (415)961-5157. [Exp. #143.]

Software Forum (formerly SEF) UniForum Open Systems SIG. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. $10. Call: George Bosworth, (415)851-3304. [Exp. #141.]

VIRTUAL REALITY

Virtual Valley, The Silicon Valley And South Bay Virtual Reality Users' Group. Meetings: every two months, next meeting June 15. Fun, information, networking, job leads, technical demos, speakers. $5 to attend. Call: Cleopatra Alfenito, (415)824-2536 or email: *virtual_valley_admin@gravity.com*. [Exp. #142.]

WINDOWS

Software Forum (formerly SEF) Windows SIG. Meetings: 1st Wed., 7:00 pm, Cubberley Community Center, Room H-1, 4000 Middlefield Rd., Palo Alto. $15. Call: Fran Finnegan, (415)288-4400. [Exp. #143.]

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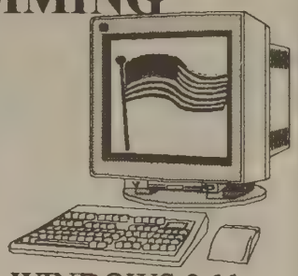

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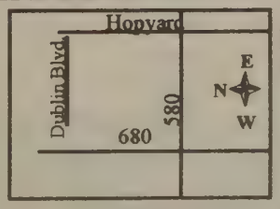

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- Hi-Res mouse w/Mouse Pad
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- Pentium OverDrive ZIF Socket
- Mini-Tower Case w/230W Power Supply
- 14" SVGA Color Monitor, 1024x768, .28dp, NI
- Quad Speed CD-ROM Drive
- 16-Bit Sound Card w/CD Interface
- Multimedia Speakers
- 3 CD's, 14 Titles:

-The San Diego Zoo
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-Velocity's Jet Fighter, & 10 Games

- 101 Keyboard
- Hi-Res mouse w/Mouse Pad
- Free MS DOS 6.2

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- 850MB IDE Hard Disk Drive
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- ATI Graphic Plus 32 PCI w/2MB DRAM
- Full-Tower Case w/250W Power Supply
- 15" SVGA Color Monitor, 1280x1024, .28dp, NI
- 101 Keyboard
- Hi-Res Mouse w/Mouse Pad
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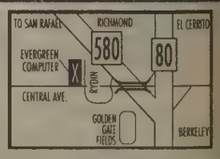

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Other ..... $Call

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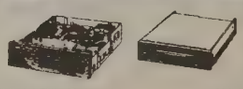

1.44Mb / 1.2Mb (Panasonic) ..... $28 / $38
1.44Mb (TEAC) $33
1.2Mb (TEAC) $42
1.44Mb (TEAC) Black $38
1.2Mb (TEAC) Black $48
1.2MB & 1.44MB Combo (TEAC) $88

CD-ROM DRIVE

Acer 2X (IDE) $88
Sony 55E (IDE) $113
Mitsumi 4X (IDE) $178
Toshiba 5302B 4X (IDE) $198
Teac 55A 4X $178
Teac 55A + FD 1.44 Combo (Model CF506A)) $198
NEC CDR-511 4X SCSI-2 ..... $288
Toshiba 3601B 4X SCSI-2 ..... $298
Plextor 4X SCSI-2 ..... $308
Plextor 6X SCSI-2 ..... $488
Other ..... $Call

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Mitsumi 101 Enhanced Keys $15
Keytronic 101 Enhanced Keys $25
NMB 101 Enhanced Keys Click $45
Focus 2001 101 Enhanced Keys $32
Focus P9000 Click w/ Calculator $48
Microsoft Natural $78

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Mini tower + 230 watts P.S $33
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Full Tower Case + 250 watts P.S $78
Super File Tower Case + 300 watts P.S (2 Fans) $158
Acer Super Full Tower Case w/ 250 watts P.S. $125
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Modem & Fax 14.4 (internal) $58
Modem & Fax 14.4 w/ Voice (internal) $68

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3-Buttons Serial $6.95

LOGITECH

2 Buttons Serial (OEM) $12.95
Dexxa Serial OEM / Retail ..... $14.95 / $17.95
MouseMan Serial OEM / Retail ..... $22.95 / $24.95
MouseMan Bus (OEM) $45.95
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First Serial (Retail) $25.95
First TrackBall Serial (Retail) $44.95
TrackMan Combo Serial (Retail) $74.95
TrackMan Voyager Serial (Retail) $64.95
CyberMan 3D Controller (Retail) $55.95
WingMan Joystick $29.95
WingMan Joystick Extreme $49.95

Microsoft

Microsoft Serial Mouse (Ergonomic) w/ system .. $24.95
Microsoft PS-2 Mouse (Ergonomic) w/ system $45.95
Microsoft Bus Mouse (Ergonomic) w/ system $59.95

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Colorado Tape Backup Solutions

Colorado 250Mb Tape Back-up (Retail Box) $125.95
Colorado 350Mb Tape Back-up (Retail Box) $135.95
HP-51640 Series (Magenta, Cyan, Yellow, Black) $24.95
CPU Cooling kit w/ heatsink & fan $4.98
CPU Cooling Kit w/ heatsink & fan (All Pentium) .. $5.98
CPU Cooling kit heatsink & fan (Good Quality) $6.98
CPU Cooling Kit heatsink & fan (Good Quality) ... $13.98
Speakers 4W / 25W / 80W ..... $6 / $25 / $45
MS-DOS 6.22 w/ system $45
Windows 3.11 w/ system $55
Windows 3.11 for WorkGroup w/ system $65
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Printer Cable 25' $4.18

YAMAHA

Yamaha 3W (YST-M5) $38
Yamaha 10W (YST-M10) $78
Yamaha 25W (YST-MSW10) $158
Yamaha 25W (YST-SS510) $198
Yamaha 25W (YST-SS1010) $228

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Sound Blaster Pro Value Edition (Retail) $73
Sound Blaster 16 Basic (OEM) $68
Sound Blaster 16 MCD (OEM) $78
Sound Blaster 16 SCSI-II w/ ASP (Retail) $188
Sound Blaster AWE 32 Value Edition (Retail) .. $168
Sound Blaster AWE 32 (Retail) $268
DigitalSchool House $228
Multimedia Home Office 4X (Retail Package) $418
Other ..... $ Call

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- ☑ Motherboard w/ CPU+FAN (256K Cache)
- ☑ 4Mb Ram installed
- ☑ IDE Controller VLB 2HD & 2FD w/ 2s, 1p, 1g
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ Window Accelerator VLB w/1Mb
- ☑ 14" Super VGA Color Monitor (1024x768) .28 NI
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watts Power Supply
- ☑ 3 Button Serial Mouse

AMD 486DX2-66	$908
AMD 486DX2-80	$918
AMD 486DX4-100	$938
Intel 486DX2-66	$928
Intel 486DX4-100	$1,018

PACKAGE 2 SYSTEM — *486 VLB Series*

- ☑ SIS-471 Motherboard w/ CPU+FAN (256K Cache)
- ☑ 4Mb Ram installed (72-pin)
- ☑ **EIDE Controller VLB 2HD & 2FD w/ 2s (16550), 1p, 1g**
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ **Spider+ Window Accelerator VLB w/1Mb**
- ☑ **14" Acer 34T SVGA Color Monitor (1024x768) .28 NI**
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watts Power Supply
- ☑ **Logictec 2 Buttons Serial Mouse**

AMD 486DX2-66	$948
AMD 486DX2-80	$958
AMD 486DX4-100	$978
Intel 486DX2-66	$968
Intel 486DX4-100	$1,058

PACKAGE 3 SYSTEM — *486 VLB / PCI Series*

ASUS®

- ☑ Asus Motherboard w/ CPU+FAN (256Kb Cache)
- ☑ 4Mb RAM Installed (72-pin)
- ☑ **EIDE PCI Controller *Built-In* 2HD & 2FD w/ 2s (16550), 1p (EPP)**
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ **Spider Tarantula Lite PCI w/ 1Mb**
- ☑ **15" Acer 56L SVGA Color Monitor (1024x768) .28 NI**
- ☑ 101 Keys Enhanced Keyboard
- ☑ Mini Tower Case w/ 230 Watt Power Supply
- ☑ **Microsoft Ergonomic Serial Mouse**

AMD 486DX2-66	$1,088
AMD 486DX2-80	$1,098
AMD 486DX4-100	$1,118
Intel 486DX2-66	$1,108
Intel 486DX4-100	$1,198

PACKAGE 4 SYSTEM — *Asus Pentium PCI Series*

ASUS® pentium PROCESSOR

- ☑ **Asus Triton Motherboard w/ CPU+FAN (256Kb Cache)**
- ☑ 8Mb RAM Installed (72-pin)
- ☑ EIDE Controller *Built-In* 2HD & 2FD w/ 2s (16550), 1p (EPP)
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ **Diamond Stealth 32 DRAM PCI w/ 1Mb**
- ☑ **15" Acer56L SVGA Color Monitor (1024x768) .28 NI**
- ☑ **Keytronic 101 Keys Enhanced Keyboard**
- ☑ **Super Mini Tower Case w/ 230 Watt Power Supply**
- ☑ **Microsoft Ergonomic Serial Mouse**

Intel P5-75MHz	$1,508
Intel P5-90MHz	$1,598
Intel P5-100MHz	$1,728
Intel P5-120MHz	$2,098

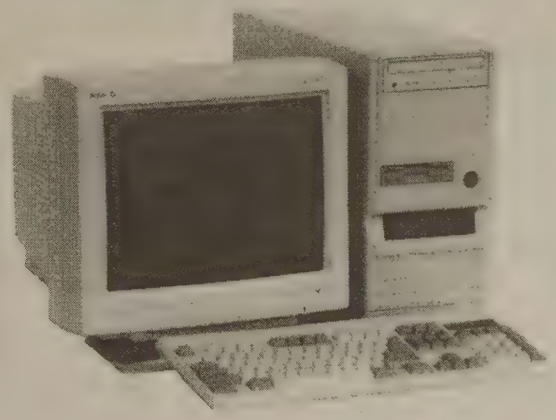
PACKAGE 5 SYSTEM — *Intel Pentium PCI Series*

intel. pentium PROCESSOR

- ☑ **Intel Triton Motherboard w/ CPU+FAN (256Kb Cache)**
- ☑ 8Mb RAM Installed (72-pin)
- ☑ EIDE Controller *Built-In* 2HD & 2FD w/ 2s (16550), 1p (EPP)
- ☑ Floppy Drive 1.44Mb
- ☑ Hard Disk 540Mb IDE 12ms
- ☑ **Diamond Stealth 32 PCI w/ 1Mb**
- ☑ **15" Acer 56L SVGA Color Monitor (1024x768) .28 NI**
- ☑ **Keytronic 101 Keys Enhanced Keyboard**
- ☑ **Super Mini Tower Case w/ 230 Watt Power Supply**
- ☑ **Microsoft Ergonomic Serial Mouse**

Intel P5-75MHz	$1,538
Intel P5-90MHz	$1,628
Intel P5-100MHz	$1,758
Intel P5-120MHz	$2,128

486 MULTIMEDIA SYSTEM



System appearence may vary

- ✱ SIS-471 Motherboard w/ CPU+FAN (ZIF socket)
- ✱ 256K Cache (expandable to 512KB cache)
- ✱ **8Mb Ram installed (72-pin)**
- ✱ EIDE VLB 2HD & 2FD w/ 2s (16550), 1p, 1g
- ✱ Floppy Drive 1.44MB
- ✱ **Hard Disk 540MB IDE 12ms**
- ✱ **Spider+ 32 VLB Windows Accelerator w/ 1MB**
- ✱ **15" Acer 56L SVGA Monitor (1024x768) .28 NI**
- ✱ 101 Keys Enhanced Keyboard
- ✱ Mini Tower Case w/ 230 Watts P.S
- ✱ **Microsoft Ergonomic Serial Mouse**
- ✱ **TEAC 55A Quad Speed CD-ROM Drive**
- ✱ **Sound Blaster 16-bit Sound Card**

AMD 486DX2-66	$1,458
Intel 486DX2-66	$1,478
AMD 486DX4-100	$1,488
Intel 486DX4-100	$1,568

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Realizable Fantasies *continued from page 26*

unteers with the postal ZIP codes that cover the target voting district and its adjacent areas, and suggest that they pull every address within those ZIP codes, from their little black books—which hopefully, they have on their computer.

Offer word processing and mail-merge freeware for downloading by the volunteers. Hold their hands as needed.

For the "As a concerned citizen" letters, ask how many each volunteer is willing to print out on their computer and mail. Then do an *n*th-name selection from your database of likely voters, that you obtained from the Registrar of Voters, and provide the list to the volunteer. (There is *much* more that can be done in this area, but I'm already wildly over-length.)

For letters to newspapers, furnish names, guidance as to what kinds of letters are most likely to be published, and try to coordinate who is addressing which points, when.

Do the same thing for talk shows.

What Am I Doing?

It's easy to talk the talk, to write this in second person—what "you" can do. But I'm also walking the walk.

For details, get online and subscribe to my free GovAccess listserv by emailing "subscribe GovAccess YourEmailAddress" as a message to *majordomo@well.com*; the subject line is ignored. Note: This is a one-man operation, with limited resources. So I guess those readers who can't or won't travel the information highways will just have to saddle up their horses and do what they can the old-fashioned way.

My plan is to collect the tools—freeware, databases, and pointers thereto—that will allow diligent citizens to do what I've outlined. The tools will be available without restriction by me—including to those with whom I most ardently disagree.

Ya see, I believe that a well-informed public, with adequate access to information on which to base sound decisions, and the political resources to force their implementation, will—in fact—make fair decisions. It's a dangerous belief, and I'm not-at-all sure it's valid. But it's the foundation of democracy—and if it's wrong, then the only alternative is an authoritarian, hopefully benevolent dictatorship.

It's time for "we, the People," to take back our sovereignty. The folks we've loaned it to have been abusing it and some even think that *they* are the sovereigns. We rejected that notion, two centuries ago.

Make waves. Netsurf for freedom! Now!! ■

❋ ❋ ❋ ❋ ❋

Net-based ***political action*** only works for advocacy that can stand the bright spotlight of ***global public scrutiny*** and debate in the net's ***unfettered environment.***

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Insights *continued from page 18*

PC market is certainly moving towards faster and cheaper CPUs. Intel recently slashed its prices on Pentium CPUs and made it clear that it wants to see the end of the 486 market come as soon as possible. For example, Intel is now not including prices for the 486 processors it sells in its price list. Many observers expect Intel to drop production of 486s (at least for standard computers) within a year.

Intel's moves will probably not hurt people buying low-end PCs with 486 CPUs—there is still a huge supply of those processors from Intel's competitors such as Cyrix and AMD. These competitors have yet to release their CPUs that will compete with the Pentium, and the only Pentium competitor on the market, manufactured by NexGen, has not been getting much of a following. There is clearly still quite a good market for 486-based PCs, particularly in the portable market where the price difference between a 486 system and Pentium system could be over $1000.

The price cuts will put a great deal of pressure on the other CPU manufacturers to keep their prices for Pentium competitors low when they finally release those chips. Intel dropped the prices of its fastest Pentiums by 30%, a hefty decrease given that Intel also cut its prices only a few months ago. For example, the cost for the 90MHz Pentium CPU is now $377, about $200 less than it cost six months ago. The 100MHz Pentium now costs $479, about half of what it cost six months ago.

On the flip side, the fact that Intel is phasing out its 486 line will give its competitors more room to price their CPUs and thus more profits in the short term. In the longer term, AMD and Cyrix will have their ability to sell 486s determined by Intel's publicity campaigns for the Pentium and the P6 processor that will start showing up around the end of this year. It is not clear how important Intel's "Intel Inside" campaign has been with end-users, or even with many computer manufacturers.

If Intel is successful in making the 486 seem slow or antiquated, AMD and Cyrix could be in a bind because they will not have ramped up production of (or even really released) their Pentium competitors. On the other hand, unless Intel can get the price of Pentium-based computers as low as today's 486-based computers, consumers will keep demanding 486s due to their price competitiveness.

Already, major manufacturers are making fun of the 486 in their advertising. For example, Dell has taken out many pages of advertising comparing the 486 to adding machines. Many other big-name manufacturers have adopted Pentium-only strategies—for their desktop models. However, when you look at their laptops, you see that all of the Dell models are still based on the 486. Pentium-based laptops make up less than 10% of the market today, and probably won't be more than 30% by the end of the year because of their high prices. ■

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- ⇒ TRITON Chipset, 256K Cache
- ⇒ 16MB RAM -70ns SIMMS
- ⇒ Adaptec 2940W Fast/Wide Controller
- ⇒ Fujitsu Fast/Wide 1GB 10ms SCSIHD
- ⇒ ATI WinTurbo 64 w/2MB VRAM
- ⇒ ExView 15" Monitor .28dpi 1280x1024 @60hz NI Digital Control
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ MS Mouse/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

Pentium 75	$2,799
Pentium 90	$2,899
Pentium 100	$2,999
Pentium 120	$3,499
Upg. to 17" Monitor	$ 345

ICS P5i-Zappa

- ⇒ Intel Zappa PCI Motherboard
- ⇒ TRITON Chipset, 256K Cache
- ⇒ 16MB RAM -70ns SIMMS
- ⇒ Western Digital 1.2GB 11ms IDE HD
- ⇒ ATI WinTurbo 64 w/2MB VRAM
- ⇒ ExView 15" Monitor .28dpi 1280x1024 @60hz NI Digital Control
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ MS Mouse/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

Pentium 75	$2,299
Pentium 90	$2,399
Pentium 100	$2,499
Pentium 120	$2,999
Upg. to 17" Monitor	$ 345

ICS P5-M-Media

- ⇒ Intel Hendrix PCI Motherboard
- ⇒ Intel Pentium 60/66 CPU , 256K Cache
- ⇒ 8MB RAM - 70ns SIMMS
- ⇒ Quantum FB 540MB 11ms IDE HD
- ⇒ 64Bit Accelerator w/2MB DRAM
- ⇒ ExView 14" Monitor .28dpi 1024x768 NI
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ MS Mouse, Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP
- ⇒ 4X CD-ROM, SBlaster 16,80W Speakers

Pentium 60	$1,799
Pentium 66	$1,849
Upgrades:	
850 MB Hard Disk	$ 49.00
16MB 72PIN RAM	$ 320.00
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ICS P5-Hendrix

- ⇒ Intel Hendrix PCI Motherboard
- ⇒ Intel Pentium CPU , 256K Cache
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- ⇒ Quantum FB 540MB 11ms IDE HD
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- ⇒ ExView 14" Monitor .28dpi 1024X768 @60hz NI Digital Control
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ MS Mouse, Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

Pentium 60	$1,499
Pentium 66	$1,549
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- ⇒ ExView 14" SVGA Monitor .28 dpi 1024X768 @60hz NI Digital Control
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ MS Mouse, Keytronic 101 Keyboard
- ⇒ 2 IDE, 2 FDD, 2 16550 I/O, 1 EPP

486DX2/66	$1,049
486DX2/80	$1,079
486DX4/100	$1,099
15" ExView Monitor	$ 95.00
8MB / 16MB RAM	$160/480

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- ⇒ 256K Cache
- ⇒ 32MB RAM - 70ns SIMMS w/Parity
- ⇒ Barracuda 2.1GB Fast/Wide SCSI II
- ⇒ Adaptec 2940W Fast/Wide SCSI
- ⇒ ATI Mach 32 PCI w/1MB DRAM
- ⇒ TEAC 1.44 3.5" Floppy Drive
- ⇒ Medium Tower Case
- ⇒ MS Mouse, Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

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USR SPORTSTER V.34 EXT	$419.95
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ADAPTEC 2940 PCI	$239.95
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SOUNDBLASTER 16 ASP	$115.95
SOUNDBLASTER 16 MCD/IDE	$79.95
MITSUMI/TEAC 4X IDE CDROM	$189.95
TEAC 4XCDROM W/1.44 FDD	$219.95
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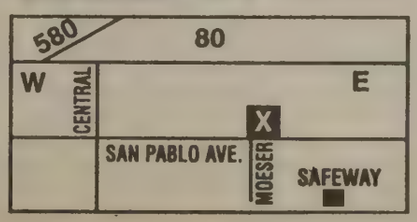

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	SOFTWARE											
OTC	Adobe		ADBE	53.75	53.50	-0.25	-0.47	167	0.20	0.37	58.75	24.50
OTC	Autodesk		ACAD	35.25	40.00	4.75	13.48	30	0.24	0.60	44.00	23.25
OTC	Borland		BORL	8.75	13.38	4.63	52.86	-	0.00	0.00	14.38	6.00
OTC	Informix	(H)	IFMX	42.50	44.88	2.38	5.59	42	0.00	0.00	49.25	14.25
OTC	Lotus	(H)	LOTS	34.25	62.38	28.13	82.12	-	0.00	0.00	62.38	25.00
OTC	Microsoft	(H)	MSFT	79.25	84.00	4.75	5.99	36	0.00	0.00	89.50	46.88
OTC	Novell	(H)	NOVL	20.63	20.25	-0.38	-1.82	38	0.00	0.00	23.25	13.38
OTC	Oracle	(H)	ORCL	31.13	35.25	4.13	13.25	41	0.00	0.00	38.50	22.66
OTC	Software Publishing		SPCO	3.38	3.50	0.13	3.70	-	0.00	0.00	6.25	2.88
OTC	Symantec	(H)	SYMC	22.00	25.38	3.38	15.34	33	0.00	0.00	26.13	9.88
	HARDWARE											
OTC	Apple		AAPL	41.44	43.13	1.69	4.07	10	0.48	1.11	48.06	24.63
OTC	AST Research		ASTA	17.13	17.63	0.50	2.92	-	0.00	0.00	19.25	10.38
NYS	Compaq		CPQ	38.00	40.00	2.00	5.26	12	0.00	0.00	44.38	29.50
NYS	Digital Equipment	(H)	DEC	45.00	42.13	-2.88	-6.39	-	0.00	0.00	49.50	18.38
OTC	Dell	(H)	DELL	54.75	53.13	-1.63	-2.97	13	0.00	0.00	58.63	23.50
NYS	Hewlett-Packard	(H)	HWP	68.13	68.50	0.38	0.55	18	0.80	1.17	72.50	35.94
NYS	IBM	(H)	IBM	93.88	89.88	-4.00	-4.26	14	1.00	1.11	97.88	54.50
NYS	Silicon Graphics	(H)	SGI	36.75	38.13	1.38	3.74	30	0.00	0.00	40.13	18.75
OTC	Sun Microsystems	(H)	SUNW	42.88	48.88	6.00	13.99	16	0.00	0.00	50.50	18.25
NYS	Xerox		XRX	116.50	111.38	-5.13	-4.40	16	3.00	2.69	125.88	90.63
NYS	Tandy		TAN	47.00	46.75	-0.25	-0.53	16	0.72	1.54	52.38	33.38
	CPU'S											
NYS	Advanced Micro Devices	(H)	AMD	37.13	33.75	-3.38	-9.09	11	0.00	0.00	37.63	22.25
OTC	Intel	(H)	INTC	108.75	113.13	4.38	4.02	19	0.16	0.14	119.63	56.13
NYS	LSI Logic	(H)	LSI	68.00	68.25	0.25	0.37	29	0.00	0.00	77.25	22.50
NYS	Motorola		MOT	58.50	59.50	1.00	1.71	22	0.40	0.67	64.75	43.38
	COMMUNICATIONS											
NYS	AT&T		T	51.50	49.88	-1.63	-3.16	16	1.32	2.65	57.00	47.25
NYS	BellSouth Corp.		BLS	62.38	60.38	-2.00	-3.21	14	2.76	4.57	63.50	50.50
OTC	MCI		MCIC	20.56	20.25	-0.31	-1.52	15	0.05	0.25	25.88	17.25
NYS	Northern Telecom		NT	35.88	37.75	1.88	5.23	25	0.44	1.17	41.00	27.63
NYS	Pacific Telesis	(L)	PAC	29.75	27.13	-2.63	-8.82	10	2.18	8.04	33.38	25.63

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	18
DECLINES	12
UNCHANGED	0
NEW HIGHS	15
NEW LOWS	1

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Lotus	$	28.13
LARGEST DOLLAR LOSER	Xerox	$	-5.13
LARGEST PERCENTAGE GAINER	Lotus		82.12 %
LARGEST PERCENTAGE LOSER	Advanced Micro Devices		-9.09 %

	CLOSE 05/10/95	CLOSE 06/07/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	6571.21	6982.06	410.85	6.25
DOW JONES INDUSTRIAL AVERAGE	4404.62	4462.03	57.41	1.30
STANDARD & POOR'S 500 INDEX	524.36	533.13	8.77	1.67
N.Y.S.E. COMPOSITE	282.41	286.96	4.55	1.61
NASDAQ COMPOSITE	847.62	881.58	33.96	4.01

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
10/27/94	5478.47	3875.15
12/16/94	5370.37	3807.19
01/18/95	5832.57	3928.98
02/16/95	5961.54	3987.52
03/15/95	6042.96	4038.37
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03

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Technology stocks continued their bullish performance during the monthly period ended June 7, 1995. Specifically, the MicroTimes Stock Index skyrocketed 410.85 points, or 6.25%, to close at 6982.06, marking another record high. In comparison, the Dow Jones Industrial Average gained 57.41 points, or 1.30%, coming to rest at 4462.03 after hitting a high of 4485.20 during the period.

In our index, advancing issues outpaced declining issues by a 3-to-2 margin, and there were fifteen issues reaching new 52-week highs vs. one issue hitting a new 52-week low.

Turning to the stocks in the MicroTimes Index:

IBM made a $3.3 billion offer to buy Lotus Development Corp.; and according to a *USA Today* report which cited John McCarthy of Forrester Research, IBM may be following up with more acquisitions. Other possible targets are the software companies Netscape Communications Corp. and Spyglass. Shares for IBM during the last period dropped 4 points, or 4.26%, to $89.88.

What comes as little surprise is that Lotus Development Corp. was the largest dollar and percentage gainer in our index, following the tender offer of $60 per share by IBM. Lotus jumped 28.13 points, or 82.12%, to a 52-week high of $62.38.

Intel Corp. announced it will build a $30 million computer chip assembly and testing plant in Shanghai. Intel's chief operational officer, Craig Barrett, said "It facilitates our presence and solidifies our presence in the Chinese economy." Intel Corp. rose 4.38 points, or 4.02%, to $113.13.

Compaq Computer Corp. cut prices on its notebook computers by as much as 20%. The price on the LTE Elite 4/40C was cut to $1999 from $2499, and other LTE Elite models were cut by 12 to 16%. In addition, eight Contura models were cut by 16 to 18%. Shares for Compaq rose 2 points, or 5.26%, to $40. ■

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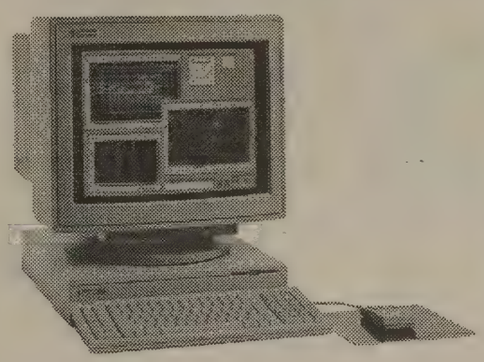

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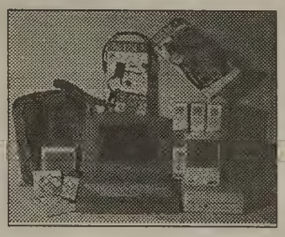

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OS/2 *continued from page 80...*

large data/graphics files.

OS/2's APM did take advantage of the 900N's power-saving features, but not of the stand-by option available in DOS/Windows.

With the driver downloaded from the AST Forum PCMCIA worked. The automatic allocation of IRQs and addresses may cause some problems, and the results were quirky—e.g., the modem was installed at COM1, but Tapcis and TE/2 would only work if set at COM2. But this was the first time when I managed to at least use the Megahertz 14,400 baud modem with a notebook.

All in all, I was able to function on the road,

OS/2's support of some notebook features—specifically video, PCMCIA, and advanced power management (APM)—

is still weak.

doing my basic tasks—mostly DOS applications in VDMs—but that's about all I can say. Anything more than that would not be very exciting. ■

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MU-SPIN *continued from 118*

that houses the training center will have to provide basic resources for a minimum of four other minority universities plus one elementary or secondary school." He realizes that these training centers will not completely eliminate the need for workshops, since some schools are not close enough to the regional centers to use them. "We know these training centers will not cover all our institutions," Bennett acknowledges, "so we are making plans to have a couple other workshops."

Since 1993, MU-SPIN members have had access to CPU time on a Cray C98 Supercomputer housed at Goddard. But access to the Cray is limited and requires special clearance—"We have to get down on bended knees and beg for use of it," jokes Harvey.

The begging will soon be over. According to Bennett, Morgan and NASA are putting up $250,000 each to purchase a Cray for MU-SPIN that will be permanently housed at Morgan. "That will evolve as part of Morgan's commitment to MU-SPIN," he said. "They have to build a summer computing facility for visiting faculty and students from minority universities. They'll host a summer workshop there every year. The computer will be owned by Morgan."

Harvey looks forward to the day when videoconferencing becomes another tool for MU-SPIN schools, but acknowledges that this kind of expensive project is not likely to happen in the near future. Her more immediate concern is not something that money can address. "People get grants when they've established track records. But if you've never had a grant, nobody takes you seriously. This is a gap that has not been satisfactorily bridged, in my opinion. Since that has to do with attitudes and perceptions, that will probably be more difficult than getting people on the Net. When you're talking about perception and attitude, you can't buy something to change that. It takes getting people to open up their minds."

The MU-SPIN project is working hard to open up minds. Bennett is encouraged by the progress the program has made. "MU-SPIN is doing tangible things, that's something that we really try hard to do. People are looking at us as a viable means to extend or enhance their research and educational efforts in the minority community. It's a chance to do something that needs to be done." ■

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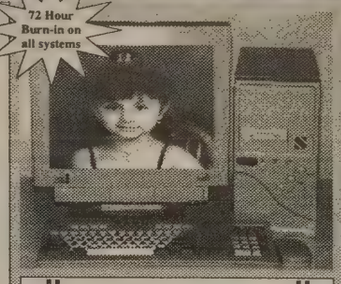

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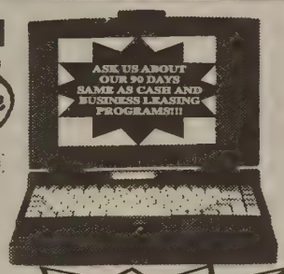

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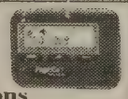

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Internet Radio *continued from page 122...*

already doing this with a resource called Radio Free vat. RFv allows anyone who's connected to the MBONE to check out a chunk of time on a virtual radio station, and play virtual DJ for a couple of hours to an audience of, well, dozens.

There is one catch—in order to participate as a DJ or just listen, you'll need to be connected to the MBONE, the Internet's "Multicast Backbone." Being on the MBONE requires a hefty pipe to the Net—at least 384Kbps, although a T-1 link is preferable—and a powerful workstation. So, the majority of Net users—those of us confined to a home computer and a 14.4Kbps modem—can't participate in RFv, for now.

Dave Hayes, a network and systems administrator for the Network Engineering group of JPL, created Radio Free vat. The idea was born quite by accident. "One day, I cross-connected the CD output [of my workstation] with the vat input and wound up broadcasting a couple minutes of a Chick Corea tune over the MBONE audio channel. I quickly noticed my error, cut off the CD, and made apologies on the audio channel." Someone answered back, "If you play music like that, you can play music anytime you want to."

"Then it hit me," Hayes said. "I used to DJ in college... Why not do this over the Internet? So, I started Radio Free vat. I began to play CDs that I liked. Soon, the idea caught on. I wrote a Perl server which handles session conflicts, and we went from there."

The number of MBONE users is rather small, so RFv doesn't have a huge audience—"The most people I've seen at one time is about 75," Hayes says.

As more users get access to high-bandwidth Internet connections, thanks to affordable services like ISDN, the audience for Radio Free vat will grow. If you thought self-publishing on the Web was popular, wait until everyone with a Net connection and microphone can have their own radio show, without so much as a nod from the FCC.

For More Information

There are plenty of other sources of radio on the Net—from traditional radio stations broadcasting their signals on the Internet, to IUMA, the Internet Underground Music Archive at *http://www.iuma.com*, where you can download tracks from dozens of bands worldwide.

Justin Paulsin maintains a list of radio stations that use the World Wide Web for broadcasting or informational purposes. This document is accessible at *http://american.recordings.com/wwwof-music/radio.html*.

Yahoo's Index of Radio Stations on the Net is at *http://akebono.stanford.edu/yahoo/Entertainment/Radio/Stations/*.

The MIT List of Radio Stations on the Internet is at *http://web.mit.edu/afs/athena.mit.edu/user/w/m/wmbr/www/otherstations.html*.

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GXe 64 1/2MB DRAM $163/233
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PC Repair & Upgrades Welcome

Web Page Listings *continued from page 132*

Documentation, online information. [Exp. #142.]

SpeedGate Communications
http://www.speed.net Complete Internet service provider for the Orange County/Long Beach area. Information on services and prices. [Exp. #142.]

The SRMC Spider Web
http://sweb.srmc.com/ Full-service ISP-WWW, 28.8, ISDN through T-1, as well as on-site support and maintenance. [Exp. #139.]

Stanford Center For Tuberculosis Research
http://molepi.stanford.edu Research at Stanford University tracking the spread of tuberculosis in San Francisco. [Exp. #140.]

Stanford University Bechtel International Center
http://fuji.stanford.edu/icenter/icenter.html Programs and services offered by I-Center for Int'l. students/scholars, families, and students who want to travel abroad. [Exp. #142.]

Starbox Grand Central
http://www.starbox.com/starbox/ Contact Tecnation Digital World for your own Starbox™ WWW site and inclusion in the intuitive Starbox directory. [Exp. #141.]

Star Trek: Voyager
http://voyager.paramount.com Latest Web site by Paramount promotes new Star Trek show and connects studio with the fans. [Exp. #138.]

SuperBusiness NET
http://www.sbusiness.com Web pages, ftp and Internet services for business. We will be featuring secure transactions via the Web. [Exp. #140.]

Sybase Home Page
http://www.sybase.com Info on products and services; views of the San Francisco Bay by clicking on BayCam button. [Exp. #139.]

Symmetric Technology
http://www.Symmetric.com Corporate Web page address. [Exp. #141.]

The Syndicate
http://www.centcon.com/~billman/syn.html Devoted to helping those who seek financial information. Many articles, pointers to other investment information sites. [Exp. #142.]

The Tax Prophet
http://www.taxprophet.com The Tax Prophet deciphers the Internal Revenue Code for taxpayers and professionals alike. [Exp. #141.]

Tecnation Digital World
http://www.tecnation.com Tecnation Digital World provides industrial design for the Information Superhighway and develops its own products. [Exp. #143.]

TELOS, The Electronic Library Of Science
http://www.telospub.com/ TELOS publishes scientific titles with electronic components: CD-ROMs, diskettes, or files via Internet. It's cool. [Exp. #140.]

Things I'd Like to See in CyberSpace
http://www.clark.net/pub/journalism/wishes.html A simple home page to collect the thoughts and wishes of those using the Internet. [Exp. #139.]

THOMAS
http://thomas.loc.gov US House of Representatives: full text of all bills of 103rd Congress, email addresses, more. [Exp. #139.]

Tim Ho
http://cad.ucla.edu:/~ho A serialized comic strip about a PC computer mouse. [Exp. #139.]

Tom Curtis's "Wide World of Art"
http://www.slip.net/~tommy999 Evolving art-based home page including: multimedia, galleries, museums, sound, video, and public and personal art sites. [Exp. #142.]

Tradenet
http://voyager.via.net/netbiz/tradenet.html The international directory of world trade opportunities and offerings. [Exp. #141.]

TV Net
http://tvnet.com/TVnet.html TV Net provides information on broadcast/cable TV stations throughout the US and the world. [Exp. #138.]

UC Riverside, California Museum of Photography
http://cmp1.ucr.edu Historical photographs, contemporary media arts, and children's projects are at the UCR/California Museum of Photography. [Exp. #140.]

UC Santa Cruz Extension Catalog
http://www.ucsc.edu/unex Quarterly, UCSC Extension provides its catalog of 500 courses, as well as events and information. [Exp. #141.]

UNCAT: The Catalog of UNCATaloged Titles
http://www.sapphire.com/UNCAT/ Brochures, books, catalogs, newsletters, videocassettes, audio cassettes not generally available in a bookstore or library. [Exp. #143.]

Uniform Capital Access Network
http://www.ucan.com/ucan/ Offers investors and entrepreneurs the opportunity to explore business prospects. [Exp. #138.]

USAMALL
http://www.usamall.com Fun page with hot and hip info, adventure sports, and entertainment schedule for concerts in the Bay Area. [Exp. #140.]

USS Liberty Home Page
http://www.halcyon.com/jim/ussliberty/ Information and files about the American ship that was attacked by the Israelis during the Six Day War. [Exp. #143.]

Vegan Action
http://www.umanitoba.ca/arrs/va/vegan_action.html A nonprofit group providing information on vegan, animal-free diets and lifestyles. [Exp. #139.]

Videomaker's Camcorder & Desktop Video
http://www.videomaker.com High-quality, up-to-date information on video production and distribution; to democratize and enrich television. [Exp. #141.]

Vinko Kojundzic's Home Page
http://maja.zems.fer.hr/~vkojun This is a home page with nice pictures of Zagreb, and a link to our official WWW server. [Exp. #140.]

Virtual Vegas
http://www.virtualvegas.com Virtual Vegas brings fun, entertainment, contests, prizes, and more. You can virtually gamble here—stay tuned! [Exp. #141.]

Virtual Vineyards
http://www.virtualvin.com Learn about the delights of great wine, discover your wine tastes, buy carefully selected wines. [Exp. #141.]

Visionware Home Page
http://www.visionware.com/ PC/UNIX connectivity products: PC X-Servers, terminal emulators, ODBC solutions, and free software demos! [Exp. #140.]

Visual Engineering's Ovation Web Page
http://www.cdrom.com/pub/viseng/ This site features Ovation, a UNIX presentation package. Release 2.0 includes HTML export and PowerPoint import! [Exp. #143.]

Voyager Company
http://www.voyagerco.com Laurie Anderson, the *Paris Review*, the Guerrilla Girls, monthly opinion feature; demos, simulations from Voyager products. [Exp. #142.]

W3-design
http://www.w3-design.com Designers of World Wide Web sites. [Exp. #139.]

Walnut Creek CDROM
http://www.cdrom.com Publisher of over 50 CD-ROM titles and host of the busiest ftp site on the Internet. [Exp. #141.]

Walt Perko's Home Page
http://slip.net/~wperko See pics of CD-ROMs 10,000 Sounds & Songs and MegaMODMadNess vol. 1. [Exp. #140.]

The Wave Network
http://www.wavenet.com The Wave Network provides fast, reliable Internet access and Web design to Los Angeles. (213)933-9283. [Exp. #142.]

Web Books—Online bookseller and special services
http://www.primenet.com/~jculp/ Online bookseller with specialties in the areas of sexuality, censorship/conspiracy, and sports. Special free services as well. [Exp. #142.]

WebChat
http://www.IRSociety/WebChat.html Real-time, multimedia chatting on the WWW. [Exp. #139.]

Web Communications Corp. Home Page
http://www.webcom.com/ Self-service, value-added, inexpensive WWW publishing services. [Exp. #141.]

Webs Are Us
http://www.websrus.com The Internet experts for design, servicing, monitoring, and hosting your business presence on the WWW. [Exp. #142.]

Web World
http://204.188.129.2/netbiz/webworld.html or *http://voyager.via.net/netbiz/webworld.html* The World Wide Web home page directory. Access any listed page with one mouse click. [Exp. #140.]

Weddings Online
http://www.sensemedia.net/sprawl/weddings A one-stop information resource making it possible to plan your wedding right from home. [Exp. #140.]

Welcome to WOL on the Web
http://www.cris.com/WOL The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #140.]

Wellness Essentials
http://voyager.via.net/netbiz/weles.html The home page of wellness information and nutritional products and more. [Exp. #141.]

What's New in Travel
http://voyager.via.net/netbiz/travel.html The place to get "freebies," info, discounts, and hot travel deals. [Exp. #141.]

WH Networks
http://www.whnet.com/wolfgang Connecting Minds, data communications archive. [Exp. #140.]

World Conquest
http://dnai.com/~conquest Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #140.]

The World Square
http://www.w2.com "Virtual mall" with companies doing business in music, art, publishing, food, finance, automobiles, health, and medicine. [Exp. #142.]

Writer's Showcase
http://community.net/~necknox Tells about the author and book on disk called *Fatal Image*. [Exp. #140.]

XROADS
http://xroads.wr.usgs.gov/Welcome.html Links to US Geological Survey Web sites. A way to learn about earth science and the USGS. [Exp. #143.]

you@here.now
http://www.webcom.com/~blessed Interactive philosophical site that allows you to share your contemporaneous thoughts with your fellow beings. [Exp. #140.]

ZIPZAP Universe
http://zipzap.com Home to the ZIPZAP Gallery, *Deep Style* Magazine, ZIPZAP e-zine, and the ZIPZAP Universe BBS. [Exp. #140.]

The Z Times
http://www.lh.com/z National Association of Broadcasters 95 show report, St. Stupid Day Parade in San Francisco, links to unusual sites. [Exp. #142.]

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To list your Web home page for FREE, send us the name of the page/site, the URL (address), and a fifteen-word description. Also, please include a contact name and phone number for our reference only. Listings will run for six issues unless renewed. We reserve the right to select listings on a space-available basis and to edit those listings as needed. Send your listing to: JohnDownen@aol.com; Web Listings, 3470 Buskirk Ave., Pleasant Hill, CA 94523; or fax to (510)934-3958.

chases over the Internet? (no opinion, often, sometimes, never)

"6. Would you use electronic cash to make purchases over the Internet? (no opinion, often, sometimes, never)

"7. Do you believe that encryption enhances the security of your transactions over the Internet? (no opinion, yes, possibly, no)

"8. Do you believe that encryption protects the privacy of your transactions over the Internet? (no opinion, yes, possibly, no)

A simple rule of thumb:
Take steps to protect any computer files or email messages containing private matters that you wouldn't discuss openly on your office telephone.

"9. For each of the encrypted payment options below, rank order the factors that would influence your decision to use that payment option over the Internet:

- Encrypted credit cards (select each answer only once)
  - Size of the purchase
  - Stores prefer credit cards
  - Rewards for use of card
  - Can choose to delay bill payment
- Encrypted debit cards (select each answer only once)
  - Direct access to bank account
  - Stores prefer debit card
  - Convenient for small purchases
  - Gives a sense of control over finances
- Encrypted electronic cash (select each answer only once)
  - Bank cannot trace my purchases
  - Stores prefer electronic cash
  - Convenient for small purchases
  - Gives a sense of control over finances

"10. Check the following statements that you believe to be true:

I believe my credit or debit card company would disclose my purchase records without my consent.

I believe my credit or debit card company would disclose my purchase records to government authorities.

I believe my credit or debit card company would provide information about purchases to merchants.

I believe my credit or debit card statement would be seen by my spouse, family members, or employer.

I do not want my credit or debit card company to have any knowledge of my purchases."

Any Comments?

Mail your completed form to *info@literal.net*.

Literal Research says the information gathered will play an important role in shaping new products and services to be provided across the Internet. ■

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extensions. Applications will use the current cooperative multitasking model, but in Gershwin, the system revision beyond next-year's Copland, the Mac will reportedly get the entire package.

Copland will also let applications create protected processes that won't be touched if an application crashes (programmers will have to add a bit of special code to enable this feature). This means you won't have to worry about interruptions when printing very large files or doing some computation-intensive image filtering.

All of this and more will be appreciated by users, but Apple has not forgotten its primary claim to fame—user interface and ease of use!

Making An Appearance

One of the important principles of Mac user interface design is similar to the claim of the runner-up hamburger shop—you can have it your way. Users are not confined to one set of actions, or commands to initiate an action; you can select a command from a menu, use a key-combination, script a set of actions, or click a button. But we ain't seen nothing yet!

Copland will provide Custom Workspaces, which will bring greater control for users over what their environment looks like. It's much more than the small changes that are available today from extensions and Finder hacks with ResEdit—you will be able to change the colors and shapes of almost every interface element, from windows to menus and buttons to sounds. Icons and items can be animated and tied to different actions. Hopefully each user can have a computing experience that is closer to their own personality and personal preferences.

Apple and third-party developers will create designer combinations of elements, called themes. To change a theme you can just put a settings file into the System folder. Some will be slanted toward the needs of new users, others to children. One of the themes will make a new Mac run like an old-fashioned one. Copland will come with one that looks a lot like the At Ease program, which is handed out with the Performa models.

We saw a horrible black and silver, super-high-tech theme that turned the menu bar into awful black buttons. It must have been designed by a Raiders football fan (Bay Area fans have never gotten over the move of the Oakland team to Los Angeles). I did like a Memphis-like style that had different shapes and multiple colors on each side of a window.

The new user interface elements will not be confined to the Finder, but will be spread across all applications. When you're in a program, all windows will still be thematic.

Custom workspaces will really help out situations where Macs are used by more than one person—most desktops in homes, schools, and small businesses. Even better, it will be possible to switch to different workspaces without restarting. The changes will not just be confined to appearance, but also control which extensions will be loaded, so it governs appearance *and* function.

My wife recently started to use the computer after many years of simply looking at the Mac as a piece of industrial design or furniture. She is a very technophobic person and doesn't care for most "new" technologies, such as our VCR, automatic bank tellers, and the telephone. Helping her has been a good exercise in patience—both hers and mine.

But since I'm the most senior user of the machine, my set of preferences for our desktop are the ones put in place on our Mac. The aliases sitting on the desktop, screen saver, and Apple Menu selections are all designed to fit my computing style, not that of my newbie wife or semi-power-user daughter. It would be great to simplify the desktop for my wife, who uses only a couple of programs; and I would avoid having to readjust all of my carefully positioned icons on the desktop after an accidental slip of the mouse.

Even better, when launching Copland, it will ask the user to select a user account tied to the system-level PowerTalk password. This will let the users of a machine automatically get their individual electronic mail or even send mail to other users on a single machine.

Copland will provide **Custom Workspaces,** which will bring **greater control** for users over what their **environment** looks like.

Find Every Mountain

Additional elements will be added to the new Copland Finder. Here are a few of them:

• Apple said it will move up from Apple Guide, introduced in System 7.5, to an "assistant" technology. The current guides help users to do things by showing them what, where, and when to click. The future assistants will step up from the not-so-simple act of showing how-to to the actual doing of operations.

Users will also be able to create scripts for the OS to perform at regular intervals. You might set up the assistant to check your electronic mail inbox or back up your hard drive. The actions are not just one-program and one-action kinds, but can involve multiple applications and processes.

• Windows will be shrinkable into Drawers, or pop-up window tabs, that will stay at the bottom of your display. The drawers will not be confined to the Finder, but will be available for access across other applications. This is conceptually an extension of the functionality found in the Control Strip control panel, which is currently found on PowerBooks. The Control Strip is a little tab on the side of the Mac screen that pulls out to reveal a palette of icons and pop-up menus.

• Users will see new spring-loaded folders that will help users navigate a series of folders on a drive. When pausing over a folder in the middle of a drag, the hierarchy of folders will automatically pop up for the user to see inside. Also, the new Finder will let people work and move

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around in the Finder while copying multiple files.

• BMUGers have frequently heaped abuse on the current Open and Save dialog boxes. They really don't show enough information or conveniently let you maneuver around a packed hard drive or server. Copland will take some of the heat off of the poor dialog programmers.

The boxes will sport panes, giving a snapshot of the total disk hierarchy. Users will be able to sort and filter the views by type and other kinds of Get Info fields. There will also be a little pop-up list (*a la* Boomerang and Shortcut) that will give frequently accessed files.

There's a lot more to look forward to in Copland. Can we wait? Do we have a choice?!

Bytes And Pieces

Here are a few little items that crossed my desktop recently:

• Heard at the Developer Conference: "Let's double-click down into this topic." The translation from geek to English: "Let's examine this more closely." Frightening.

• If you're into Japanese and running the Japanese Language Kit, check out v1.2, released in May. The software lets users input and edit documents with Japanese text as well as Roman-style scripts. The new version is compatible with System 7.5, and adds new GX fonts and the latest edition of Kotoeri, the Japanese Input Method.

• One of the new extensions recently added to the System folder is Stickies, which lets you write little Post-it-style notes and "stick" them on the desktop. It also has a great secret trick.

Make a new note, type in the word "Antler!" For those not running System 7.5, I've reproduced the results in the image shown in Figure 1.

Figure 1

Shareware Spotlight

Some people running the latest System Software Update (detailed in last month's column) have complained that they've had problems with their parameter RAM and desktop settings. The parameter RAM is a little piece of memory in the clock chip on the motherboard that holds most of the primary control panel settings such as keyboard, mouse, time, and date.

It's backed up by a battery that needs changing every few years, so if you've never changed the battery and have an older Mac model, you might want to replace the battery. If your Mac starts applying odd dates to files, this is the likely culprit.

To reset the settings back to factory defaults, you hold down the Command, Option, "P" and "R" keys while turning on the Mac. However, MicroMat Computer Systems has a freeware utility called TechTool 1.06 that gives an easier way to zap the PRAM. It lets you just click a single button.

Even better, the program lets you save the PRAM settings to a file before you clean house and then restore them afterwards. This can save you from opening all of the control panels one by one.

TechTool also kills the invisible desktop DB and DF files and then automatically invokes the Finder to rebuild them. It also details all kinds of low-level system and hardware information that you can print out for the inevitable call to technical support when some very bad problem occurs.

The utility is available on most electronic services and Planet BMUG, our membership bulletin board service. ■

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BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

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AMIGA *continued from page 276*

COMMENTS AND CRITICISMS

Alpha Paint really needs ARexx support. Besides just being able to batch process images, it would allow you to animate some of the effects.

It would also be nice if *all* option parameters could be set using the mouse, instead of only some. This would minimize having to move your hand back and forth between the mouse and keyboard. The mini-sliders introduced in LightWave 3.5 would be perfect.

Another limitation is that you cannot multitask out of Alpha Paint and do something else. It basically takes over the whole machine. (I am told, however, that this was a necessary evil to get Alpha Paint to perform its magic.)

I also wish that the controls interface optionally or simultaneously appeared on the Amiga RGB monitor. Some Toaster users (like me) have their Toaster monitors off to the side; they may not be located in a position where it is comfortable to do detailed work. Interestingly, you can faintly see the interface on the Amiga RGB monitor if you turn the brightness up.

CONCLUSION

Alpha Paint is one heck of a program. It comes with a thick three-ring notebook manual with many tutorials to have you up and running in no time. You'll soon be able to whip up a beautiful complex video graphic in just minutes.

I'll be the first to admit that you could duplicate everything that Alpha Paint does using other programs you probably already have. However, Alpha Paint puts it all there right in front of you. Right at your fingertips. All wrapped up in one straightforward, easy-to-use package. If you make your living with the Toaster, you need this program. It's priced a bit higher than other Amiga paint programs, but it will save you time and quickly pay for itself. ■

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RESOURCES:

AlphaPaint, $699.95 (available direct for $399 for a limited time)
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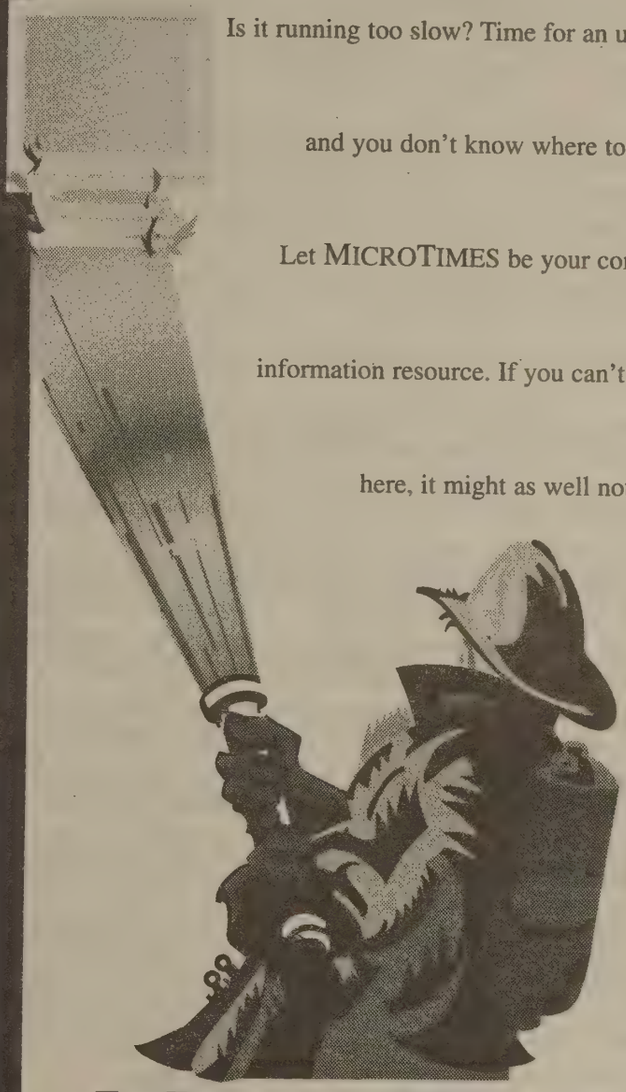

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MULTIMEDIA 101 *continued from page 268*

GET NASTY!

I was a little disconcerted by differences in Gray's appearance—and the way he acted—between the video shots of a live seminar in the "Another Look" section and the video shot specifically for the CD-ROM. While he was obviously still the same person, he appeared to have gained weight and changed his hair color between the presumably earlier seminar footage and the CD-ROM footage. A small point maybe—but when we are, in effect, being asked to trust this guy with the intimate details of our relationships, consistency might count in getting us to drop our barriers.

In addition, his personality seemed to change between the two sets of footage. In the seminar Gray is rather high-energy and amusing, with a lot of body movement, while on the specifically CD-ROM sections, he's almost smarmy and unctuous in his manner. Luckily, the strength of his material enables him to overcome this difficulty, but it's a close call. Other producers should be aware that the consistency of your lead character will be a critical factor in the success or failure of your title.

The characters of Michael and Megan, the Martian and Venusian emotional protagonists (or should that be antagonists?), provide food for thought. Certainly, they're portraying two characters who are having problems with each other—but, frankly, their nastiness towards each other is distinctly unsympathetic. Several times I just about got to the point where I simply didn't care if they resolved their problems; I was happy that they were making each other unhappy and were out of circulation. If I was in a relationship that had gotten that bad, I'd be out in a minute! Then I remembered that the real point of this CD-ROM is to help me learn how to communicate better. Once again, what rescues the product is the strength of Gray's material rather than the way it is portrayed.

One thing you won't be visiting John Gray's virtual workshops for is the graphics. Now, you don't go to a therapist to look at the interior design either—but the better ones have made some attempt to provide a tasteful and relaxing environment in which to spill your guts. The graphics of *Men Are From Mars, Women Are From Venus* are reminiscent of a real low-rent waiting room with a very off-the-shelf budget feel of ghastly pastels and tacky textures. I'm surprised they didn't add that little bit of extra realism by giving you a code to open the door!

On the positive side, some things were handled well. The active button would come up in front of the others and the text on the CD-ROM was unjustified instead of justified as in the book. This makes it a lot easier to read off the screen. In general, the type was handled well, although the type on the pop-up navigational menu has a strange alternation between being sharp and fuzzy.

The CD-ROM ran a little slow and didn't seem to register mouse clicks as readily as it might. Perhaps I was attempting to whiz around faster than an authentic user would, but I quite frequently found both these factors annoying. Lastly, the video clips seemed to have a lot more pixel flickering than the current state of the art permits. Particularly when much of the video is shot for this specific purpose, I would expect better quality.

RESOURCES:

Men Are From Mars, Women Are From Venus, $49.95
Published by HarperCollins Interactive
Developed by Medior
Available in bookstores and computer media outlets.
Call 1-800-424-6234 to find a location near you.

GET HAPPY!

I cannot resist returning to comment on the content. These sort of self-help and home-therapy products usually have a blind spot somewhere. While they offer a lot and will make you feel good by feeling like you're doing something, they also often duck a real crucial issue or two or, at least, obscure them. *Men Are From Mars, Women Are From Venus*, in either its book or CD-ROM version, is no exception.

In the CD-ROM version of *Men Are From Mars, Women Are From Venus*, Michael and Megan are respectively an attorney and apparently an advertising executive. Both are working far too hard and bringing their job-related stress home to wreak havoc on their domestic partner. Does John Gray suggest that perhaps both should simply cut back on their work commitments? Does he suggest that we live in an economic system that elevates material wealth over emotional well-being? Not that I could find in either book or CD-ROM! In this respect, using *Men Are From Mars, Women Are From Venus* is like putting a Band Aid over a festering, infected wound.

In both the CD-ROM and the book, the classic example of how each sex acts when arriving home from that stress-filled job is used. The man wants to go into his "cave" and chill out with the paper or the TV, while the woman wants to talk about her day, not to hear the man solve her problems but just to ventilate her feelings. Of course, the man, being a man, has a hard time not solving her problems, but the real difficulty here is that we're not told what to do when man and woman arrive home simultaneously with their differing needs.

Clearly, there is a basic conflict and the only solution is for one or the other to put their desires aside. What is needed is a sense of positive cooperation and collaboration between the two sexes. In general, this is also the case in other scenarios presented in the workshops—however, this is never made explicit. In my unscientific observation, by the time you get to the type of difficulties portrayed in *Men Are From Mars, Women Are From Venus*, rather than positive collaboration, you're dealing with balkiness and defensiveness if not outright offensiveness. There's a strong desire in both partners to protect a sense of self and the outcome is competition rather than cooperation. This is not a good background for weak implications being picked up on. The thorniest issue of all in relationships is what to do when your basic needs diverge, and once again I cannot find this addressed by Gray.

And perhaps that's the highest and hardest form of interactivity. ■

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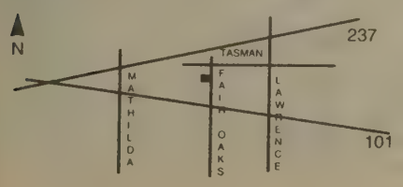

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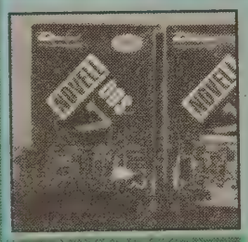

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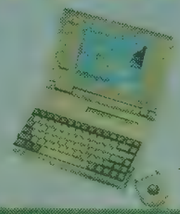

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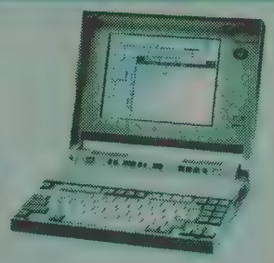

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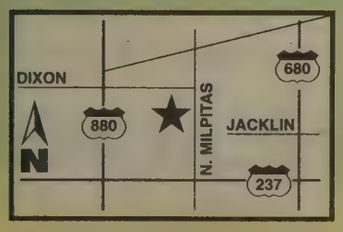

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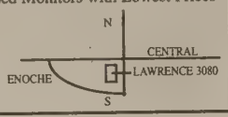

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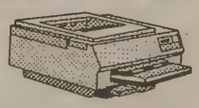

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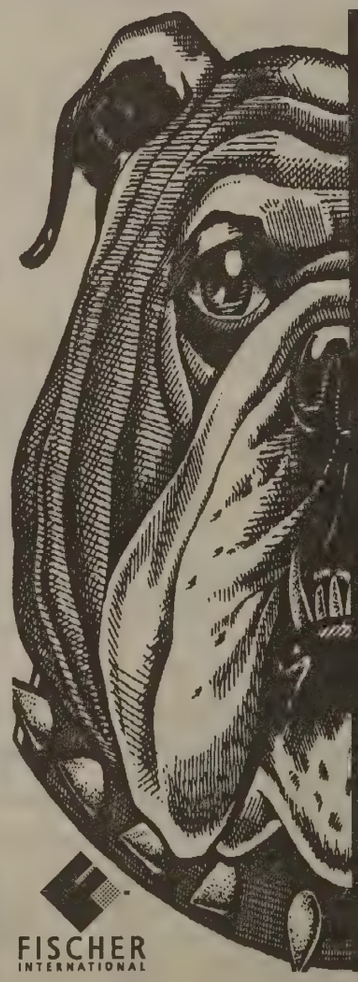

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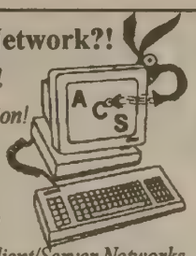

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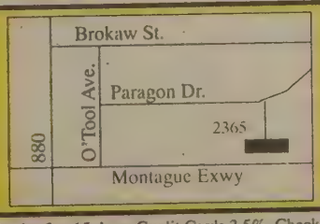

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Asus 486DX2-66/256K VLB-PCI 1,088
Asus 486DX2-80/256K VLB-PCI 1,108
Asus 486DX4-100/256K VLB-PCI..1,138
P5-60/256K VLB-PCI....1,208
P5-66/256K VLB-PCI....1,238
P5-75/256K VLB-PCI....1,298
P5-90/256K VLB-PCI....1,378
P5-100/256K VLB-PCI....1,498

UPGRADES

- Microsoft Windows 3.x....Add $50
- 850MB Hard Drive....Add 60
- 1.2GB Hard Drive....Add 160
- 15" Non-Interlaced Monitor....Add 90
- 28.8 Internal Fax Modem....Add 89

HI-TECH SUPER P5 SYSTEMS

- Intel Pentium™ Processor with Fan
- 256KB External Cache
- **8MB RAM**
- **540MB Fast IDE Hard Drive**
- TEAC 1.44MB 3.5" Floppy Drive
- PCI IDE Controller with I/O
- Diamond Stealth 64 PCI with 1MB
- **15" SVGA .28 Color Monitor**
- Keytronics Keyboard
- Medium Tower Case w/Power Supply
- Microsoft Serial Mouse w/Pad
- Free DOS 6.x

P5-75 PCI (Intel M/B) $1,538
P5-90 PCI (Intel M/B) 1,618
P5-100 PCI (Intel M/B) 1,758
P5-75 PCI (Asus M/B)....1,538
P5-90 PCI (Asus M/B)....1,618
P5-100 PCI (Asus M/B)....1,738
P5-75 PCI (Micronics M/B) 1,638
P5-90 PCI (Micronics M/B) 1,718
P5-100 PCI (Micronics M/B) 1,838

UPGRADES

- Microsoft Windows 3.x....Add $50
- 850MB Hard Drive....Add 60
- 1.2GB Hard Drive....Add 160
- 17" Non-Interlaced Monitor....Add 280
- 28.8 Internal Fax Modem....Add 89

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1. One year parts and labor warranty on systems.
2. Knowledgeable technical support engineers on service.
3. Prices and availability subject to change w/o notice.
4. Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
7. No responsible for typos.
8. All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers; excludes peripherals and software. No refunds after 30 days.
9. Superior reputation for service, quality and value.
10. Purchase orders are welcomed and subject to approval.

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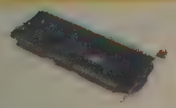
CASE W/POWER SUPPLY

200W / 230W Power Supply ..... $28 / 32
250W / 300W Power Supply ..... 42 / 58
Mini Tower Case w/200W Power Supply 35
Desktop AT Case w/200W Power Supply 45
Medium Tower Case w/230W Power Supply 60
Full Tower Case w/250W Power Supply 76
UPS APC 280VA / 400VA / 600VA ..... 100 / 140 / 230

CONTROLLERS



I/O (2S / 1P / 1G) $10
IDE 2FD/2HD with 2S/1P/1G 11
PCI IDE with I/O 32
VLB IDE with I/O 16
Enhanced I/O (2S/1P) w/16550 UART Chip 19
IDE I/O (2S/1P) w/16550 UART Chip 20
VLB IDE I/O (2S/1P) w/16550 UART Chip 24
BusLogic 445C VLB (SCSI) 168

adaptec

1522 (SCSI) $68
1542CF (SCSI) 163
1542CFK w/Kit (SCSI) 227
2742 EISA 208
2842 VLB SCSI 184
2940 PCI SCSI 188
2940W (Wide SCSI) 230

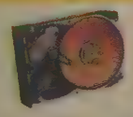
DATA TECHNOLOGY CORPORATION

DTC 2280+ ISA IDE w/16550 UART Chip $22
DTC 2278+ VLB IDE W/16550 UART Chip 28

PROMISE TECHNOLOGY, INC.

Promise DC-200 IDE Cache Controller 84
Promise DC-420 VLB w/512K Cache 94
Promise DC-2300 Plus VLB IDE Fast I/O 46
Promise DC-4030 VLB IDE Cache Controller 92
Promise DC-5030 PCI IDE 0-16MB Cache 118

HARD/FLOPPY DRIVES



Quantum™
Maxtor Seagate
MICROPOLIS CONNER
WESTERN DIGITAL

HARD DRIVES

170MB IDE $108
210MB IDE 128
340MB IDE 142
420MB IDE 146
540MB IDE 158
730MB IDE 188
850MB IDE 208
1.0GB IDE 288
1.2GB IDE 308
200MB SCSI 138
540MB SCSI 188
1.0GB SCSI 408
1.8GB SCSI 698
2.0GB SCSI 768

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Teac 1.2 / 1.44 Floppy Drive ..... $40 / 30
Mitsumi 1.2 / 1.44 Floppy Drive ..... 38 / 27
TEAC Dual Floppy Drive 80
3.5" DS/HD High Density Diskettes 10 Pack 4

KEYBOARDS

101 Enhanced Keyboard $13

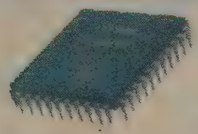
FOCUS

FK2001 101-Key Click 28
FK7000 w/Trackball 32
FK8000 w/Calculator 34
FK9000 Programmable w/Calculator 43
Keytronics 101-Key Enhanced 22
Mitsumi 101-Key Enhanced 13
Maxiswitch 101-Key Enhanced 19
Maxipro II Programmable 44
Microsoft Natural Key 83

NORTHGATE

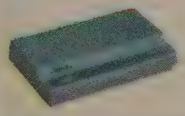
OMNI 101 NI $62
OMNI 102 62
OMNI Ultra 82

MATH COPROCESSORS



387DX-40 Tube $22
387DX-40 Box 32
387DX-33 Tube 10
387DX-33 Box 32
387SX-40 Tube 22
387SX-40 Box 32
387SX-33 Tube 22
387SX-33 Box 32

MODEMS & FAXES



Fax Modem 14,400 External for Macintosh $88

US ROBOTICS

Sportster 14,400 Fax Modem Internal $88
Sportster 14,400 Fax Modem External 108
Sportster 28.8 Fax Modem External 188
Sportster 28.8 Fax Modem w/V.34 Int 212
Sportster 28.8 Fax Modem w/V.34 Ext 230

Fax Modem (9600 Fax/2400 Modem) $25
Fax Modem 14,400 Internal 42
Fax Modem 14,400 w/Voice Internal 52
Fax Modem 14,400 External 62
Fax Modem 28.8 Internal 89
Fax Modem 28.8 with V.34 Int. 114
Fax Modem 28.8 with V.34 Ext 138
Hayes 14400 Fax Modem Int/Ext ..... 88 / 108
PCMCIA Fax Modem 14,400 for Notebook 104
PCMCIA Fax Modem 14,400 w/Voice 116
PCMCIA Fax Modem 28,800 w/V.34 228

MOUSE/SCANNERS

3-Button Mouse Microsoft Compatible $6

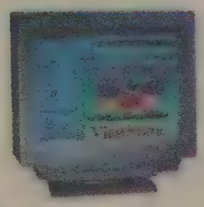
LOGITECH

First Mouse (OEM / Retail) ..... $18 / 25
Mouseman Serial (OEM / Retail) ..... 26 / 44
Mouseman Bus (Retail) 62
Trackman (OEM / Retail) ..... 48 / 72
Scanman 256 Gray Scale 148
Scanman Color w/OCR 250

Microsoft

Microsoft Mouse Serial (w/System) $22

MONITORS



14" Mono $66
14" VGA Mono 78
14" Super VGA 1024•768 .39 168
14" Super VGA 1024•768 .28 Int 184
14" Super VGA 1024•768 .28 NI 194
15" Super VGA 1280•1024 .28 (KFC) 284
17" Super VGA 1280•1024 .28 (KFC) 558

CTX

14" Super VGA 1024•768 .28 NI $218
15" Super VGA 1280•1024 .28 308
17" Super VGA 1280•1024 .28 592

Impression

3 14" 1024•768 .28 Int. $196
3 Plus 14" 1024•768 .28 NI 208
7 17" 1280•1024 .26 NI 564

MAG INNOVISION

15F 15" 1280•1024 .28 ..... $348
17F 17" 1280•1024 .26 610

NANAO®

F2-17 .28 828
F2-17EX .26 918
T2-17TS .25 968
T2-17 .25 1,234
T2-20 .30 1,868

NEC

3V 15" 1024•768 .28 368
Multisync XV 15 436
Multisync XE 15 520
Multisync XP 15 632
Multisync XV 17 750
Multisync XE 17 936
Multisync XP 17 1,174
Multisync XE 21 1,878
Multisync XP 21 2,312

OPTIQUEST

900S 14" 1024•768 .28 ..... $208
1000S 14" 1024•768 .28 NI 248
1562A 15" 1024•768 .28 Flat 332
4000DC 17" 1280•1024 .27 Flat 638
2082DC 20" 1600•1280 .28 1,174

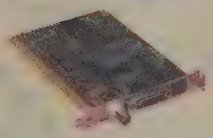
SONY

15SF 15" 1280•1024 .25 Green $418
17SF 17" 1280•1024 .25 808
20SE1 20" 1600•1200 .30 1,742

ViewSonic®

6E 14" 1024•768 .28 Green $240
15ES 15" 1024•768 .28 344
15G 15" 1280•1024 .28 60MHz 384
17 17" 1600•1280 .27 Green 778
17E 17" 1280•1024 .28 Green 660
17GS 17" 1280•1024 .28 Green 696
20G 20" 1600•1280 .28 1,202
21PS 21" 1600•1280 .25 1,570

NETWORKS



16 BIT Ethernet Cards (Coax) $24
16 BIT Ethernet Cards (10 Base-T) 24
16 BIT Ethernet Cards (Combo) 25
16 BIT Ethernet Cards (Pocket for Notebook) 98

3Com

3C509 ELINK III Coax / 5 pack ..... $99 / 448
3C509 ELINK III TP / 5 pack ..... 76 / 408
3C509 ELINK III Combo / 5 pack ..... 110 / 488

ARCnet

Bus Topology ISA Card (8 BIT / 16 BIT) ..... $38 / 42
Star Topology ISA Card (8 BIT / 16 BIT) ..... 38 / 42

Hubs and Repeaters

8-Port 10 Base T HUB (w/BNC) $104
12-Port 10 Base T Hub (w/BNC, AUI) 218
16-Port 10 Base T HUB (w/BNC, AUI) 228

PRINTERS

brother

HL-630 / HL-645 ..... $390 / 420
HL-655M / HL-660 ..... 550 / 640

CITIZEN

GSX-190 (9-Pin) / GSX-220 (24-Pin) ..... $156 / 166
GSX-230 / GSX-240 (24-Pin) Quiet ..... 202 / 284
Color Option for Citizen Printers 48

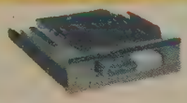
HEWLETT PACKARD

HP DeskJet 540 / 560C ..... $282 / 464
HP LaserJet 4 / 4 Plus ..... 1,216 / 1,364
HP LaserJet 4L / 4P ..... 636 / 924
HP LaserJet 1200C / 4MP ..... 1,028 / 1,326

Panasonic Office Automation

KX-P1150 (9-Pin) $128
KX-P2023 (24-Pin) Quiet 170
Color Upgrade Kit KX-PCK11 52

TAPE BACKUPS



AIWA 250MB Internal w/Tape $88
Conner 420MB Internal ..... 144 (w/tape 154)
Conner 850MB Internal w/Tape 198

COLORADO MEMORY SYSTEMS

DJ-20 250MB Internal $124
DJ-35 350MB Internal 136
DJ-25 700MB Internal 190
T-1000 800MB Internal 194
DJ-50 1.3GB Internal w/Tape 298
Tape QIC-80 3M DC2120 13
JT-20 Trakker 250MB Ext 248
JT-35C Trakker 350MB Ext 268

SOFTWARE

Microsoft DOS 6.x (with System) $40
Microsoft Office Professional 4.3 (with System)
OEM Package / Retail Package ..... 338 / 458
Microsoft Windows 3.x (with System) 50
Microsoft Windows for Workgroup (with System) 60
Microsoft Home Bundle (Encarta, Golf, Money, Works, Entertainment Pack, Dangerous Creature (with System) 78

VGA CARDS

VGA 256K / 512K ..... $28 / 34
SVGA 1MB 1024•768 16 BIT 54
S3-805 VLB w/1MB 64
Trident VLB w/1MB 66
Trident PCI w/1MB 66

ATI TECHNOLOGIES INC

Wonder ISA 1MB DRAM $88
Wonder PCI 1MB DRAM 88
Ultra Plus PCI / VLB 1MB DRAM (MACH 32) 92
Ultra Plus PCI / VLB 2MB DRAM (MACH 32) 154
Ultra Pro PCI 2MB VRAM (Mach 32) 208
Ultra Pro VLB 2MB VRAM (Mach 32) 208
WinBoost PCI 1MB DRAM (Mach 64) 124
WinBoost VLB 1MB DRAM (Mach 64) 126
WinBoost PCI 2MB DRAM (Mach 64) 165
WinBoost VLB 2MB DRAM (Mach 64) 165
WinTurbo 64 PCI 2MB VRAM (Mach 64) 240
WinTurbo 64 VLB 2MB VRAM (Mach 64) 240
WinTurbo 64 PCI 4MB VRAM (Mach 64) 398
WinTurbo 64 VLB 4MB VRAM (Mach 64) 428

DIAMOND

Speed Star SE PCI / VLB 1MB DRAM $88
Speed Star SE PCI / VLB 2MB DRAM 136
Stealth 64 SE PCI 1MB (DRAM) 88
Stealth 64 PCI 1MB (DRAM) 110
Stealth 64 VLB 1MB (DRAM) 116
Stealth 64 PCI 2MB (DRAM) 153
Stealth 64 VLB 2MB (DRAM) 154
Stealth 64 PCI 2MB (VRAM) 250
Stealth 64 VLB 2MB (VRAM) 250
Stealth 64 PCI 4MB (VRAM) 392
Stealth 64 VLB 4MB (VRAM) 394
Viper 2MB VLB (VRAM) 188
Viper-Pro PCI 2MB (VRAM) 342
Viper-Pro PCI 4MB (VRAM) 468

genoa SYSTEMS CORPORATION

8500 VLB 1MB $85

ORCHID

Fahrenheit 64 PCI /VLB 1MB (DRAM) $125
Fahrenheit 64 PCI /VLB 2MB (DRAM) 168
Fahrenheit 64 Pro PCI / VLB 2MB (VRAM) 262
Fahrenheit 64 Pro PCI / VLB 4MB (VRAM) 388
Kelvin EZ PCI / VLB VLB 1MB (DRAM) 94
Kelvin PCI (64-Bit) 1MB 114
Kelvin VLB (64-Bit) 1MB 114
Kelvin PCI (64-Bit) 2MB 162
Kelvin VLB (64-Bit) 2MB 162

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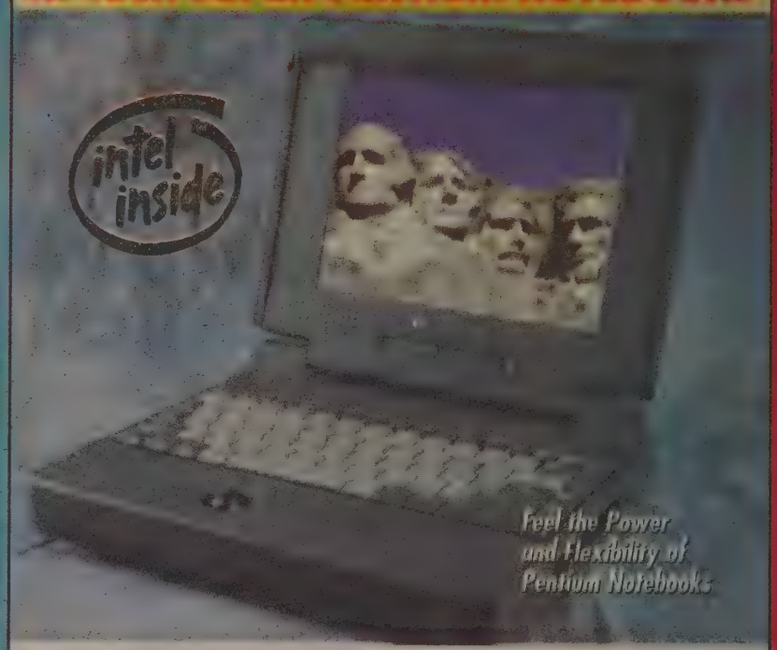
HI-TECH 486 MULTIMEDIA NOTEBOOKS

STANDARD CONFIGURATIONS

- 4MB RAM (expandable to 32MB)
- 340MB Hard Drive
- 32-BIT VL Bus Windows Accelerator
- Large 10.5" Screen (Dual Scan)
- 1MB Video Memory
- Built-In Trackball
- Carrying Case
- Built-in Sound Card and Speaker
- NIMH Battery
- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- Docking Station Option

HI-TECH SUPER SALES	VGA Mono	Dual Scan Color	Active Matrix Color
486DX2-50 (Intel CPU)	$1,328	$1,768	$2,298
486DX2-66 (Intel CPU)	1,348	1,788	2,318
486DX4-100 (Intel CPU)	1,438	1,878	2,398

HI-TECH SUPER PENTIUM NOTEBOOKS



STANDARD CONFIGURATIONS

- 8MB RAM (expandable to 32MB)
- 340MB Hard Drive
- 32-BIT VL Bus Windows Accelerator
- Large 10.5" Screen (Dual Scan)
- 1MB Video Memory
- Built-In Trackball
- Carrying Case
- Built-in Sound Card and Speaker
- NIMH Battery
- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- Docking Station Option

HI-TECH SUPER SALES	Dual Scan Color	Active Matrix Color
P5-75 (Intel Pentium™ Processor)	$2,248	$2,848
P5-90 (Intel Pentium™ Processor)	2,338	2,938

HI-TECH EXTRA VALUE NOTEBOOK UPGRADES

- To 8MB / 12MB / 16MB / 20MB / 24MB / 36MB / 40MB ..... $CALL
- To 510MB / 810MB Hard Drive ..... Add $100 / 270
- PCMCIA Dual-Speed CD-ROM ..... Add $250
- PCMCIA Fax Modem 14,400 or 28.8 w/V.34 ..... Add $110 or $238
- PCMCIA LAN Adapter (10Base-T & Twist) ..... Add $140
- Extra NIMH Battery Pak ..... Add $120
- Extra AC Adapter ..... Add $88
- Docking Station ..... Add $420
- Maxtor MobilMax Flash Memory Cards
  1MB / 2MB / 4MB / 8MB ..... Add $99 / 159 / 239 / 379
  10MB / 12MB / 16MB / 20MB ..... Add $449 / 509 / 639 / 769
- Maxtor MobilMax PCMCIA Hard Drives
  105MB / 131MB / 171MB ..... Add $299 / 329 / 389
- Maxtor MobileMax Deskrunner Single Internal PCMCIA type III Card Socket for Desktop PCs ..... Add $95

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Mon-Fri: 9am-5:30pm
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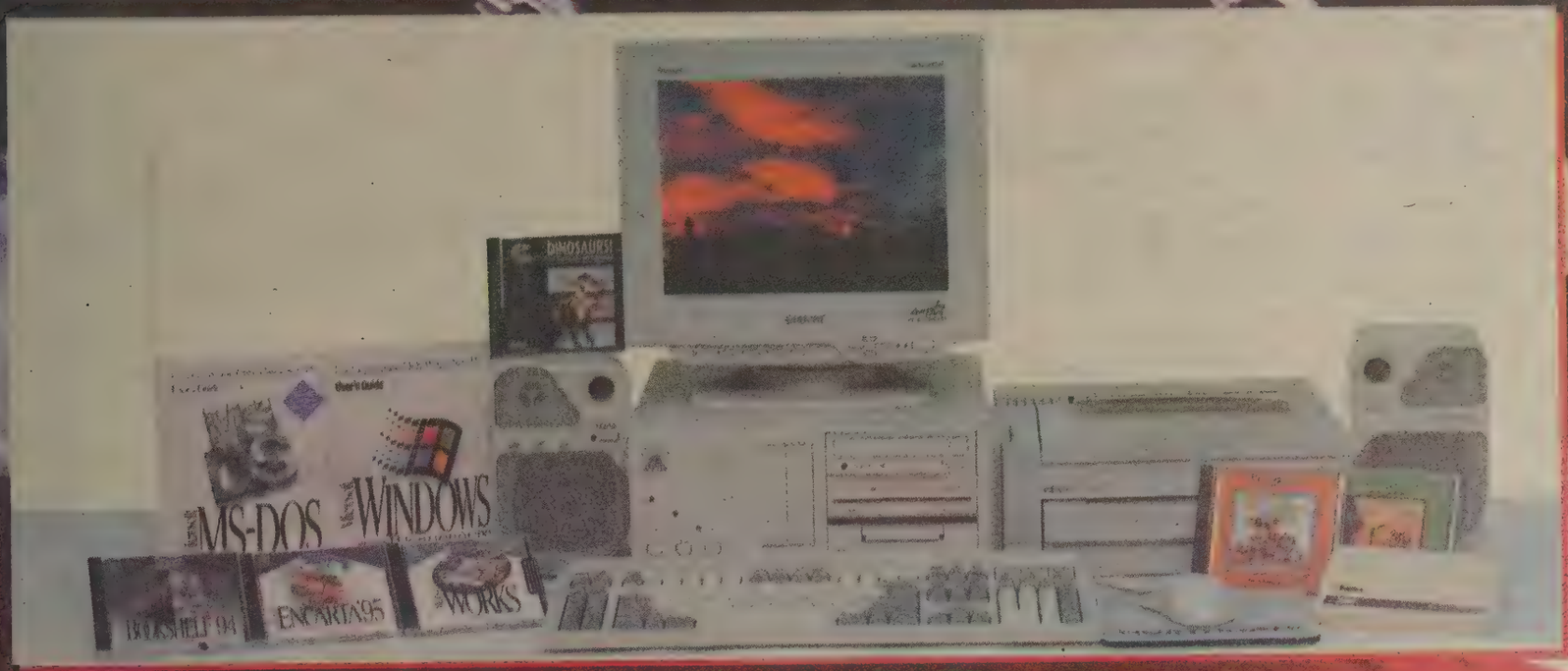


HI-TECH PROFESSIONAL
Multimedia Systems

- Motherboard with CPU
- **8MB RAM**
- **850MB Fast IDE Hard Drive**
- VLB or PCI IDE with I/O
- Diamond Stealth 64 1MB VLB or PCI
- **Quad-Speed CD-ROM**
- 16-Bit Sound Card & 80W Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- **15" SVGA .28 Color Monitor**
- Mid Tower Case with Power Supply
- Keytronics Keyboard
- Microsoft Serial Mouse with Pad
- Microsoft DOS 6.x
- Microsoft Windows for Workgroups 3.x
- **Microsoft Encarta, Golf, Money, Works, Entertainment Pack, Dangerous Creature**

486SLC2-66/64K VLB	$1,588
486BL-75/256K VLB	$1,618
486DX2-66/256K VLB	$1,618
486DX2-80/256K VLB	$1,628
486DX4-100/256K VLB	$1,668
P5-60/256K VLB-PCI	$1,798
P5-66/256K VLB-PCI	$1,828
P5-75/256K VLB-PCI	$1,888
P5-90/256K VLB-PCI	$1,968
P5-100/256K VLB-PCI	$2,088

UPGRADES

Memory Upgrade	$CALL
1.2GB Hard Drive	Add 100
17" Non-Interlaced Monitor	Add 280
14,400 Internal Fax Modem	Add 42
28.8 Internal Fax Modem	Add 89
Colorado Tape Back-up DJ-35	Add 136
Microsoft Office Pro 4.3 (OEM)	Add 338

MULTIMEDIA

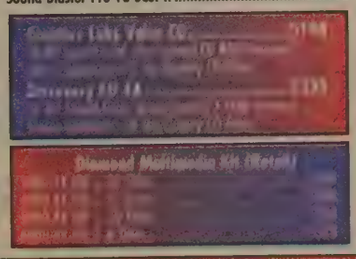
Chinon 525 (Int.) 2X 280ms SCSI	$116
Chinon 545 (Int.) 4X IDE	164
Mitsumi Dual Speed (Bare Drive)	100
Mitsumi FX 400 4-Speed IDE	174
NEC 3X (510) Triple Speed SCSI Int.	180
NEC 4X (511) 4-Speed SCSI Int.	280
Panasonic Dual Speed (Bare Drive)	96
Panasonic 504 4-Speed SCSI Int.	245
Sanyo 254SH SCSI 4-Speed Int.	188
SONY 55E Dual Speed (Bare Drive)	100
TEAC CD-55A 4-Speed Int. AT	164
TEAC 506A 4-Speed IDE w/1.44 FDD	198
Toshiba XM-5302 4-Speed IDE Int.	178
Toshiba XM-3601 (SCSI) 4-Speed Int.	286
Toshiba XM-3601BE (SCSI) 4-Speed Ext.	384
Trantor SCSI Host w/Driver	40
Altek Lansing Speakers ACS50/ACS3/ACS300.1	62 / 156 / 216
Deluxe Speakers	6
80 Watt / 120 Watt Speakers	40 / 54

SOUND CARDS

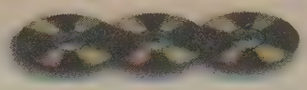
16-Bit Sound Card	$48
Mediavision Jazz 16	50
Mediavision Spectrum 16 SCSI	98

CREATIVE
CREATIVE LABS, INC

Sound Blaster Pro 16 IDE	69
Sound Blaster Pro 16 MCD	64
Sound Blaster Pro 16 MCD w/ASP	100
Sound Blaster Pro 16 SCSI II	102



CD SOFTWARE TITLES



14,000 Programs	$8
401 Great Letters	7
All You Can Play	8
Animals v1.0 DOS	9
Annabel's Dreams – Egypt	10
Arthur's Teacher Trouble	13
Bring the World to Your Senses	8
Carmen San Diego DOS	15
CD Deluxe Pak (Chess Master 3000, Mavis Teaches Typing, US Altas, World Atlas)	14
Chess Master 4000 MPC	14
Complete Guide to Prescription	7
Compton's Interactive Encyclopedia MPC	18
Desktop Publisher's Dream 1994	8
Doom Shareware	8
Eureka Pak (CD Deluxe Pack, Compton's Interactive Encyclopedia, Challenge Pack, 14 Titles on 3 CDs)	38
Family Health Tracker	7
Game Galore	8
Iron Helix	15
Just Grandma and Me	13
King's Quest V DOS	12
Kodak Photo CD Access	13
Language of the World	9
Mario is Missing	15
Mavis Teaches Typing MPC	13
Mayo Clinic Family Health	13
Medical Dictionary Family Health Guide	7
Microsoft Bookshelf MPC 1994 (with system)	34
Microsoft Encarta 1995 (with system)	28
Microsoft Works (w/System)	34
MIDI Music Shop	14
Multimedia Pack for Windows	10
PC SIG 13th Edition	18
Playing with Language (English, French, German, Japan, Spanish)	14
Return to Zork	14
Star Trek: 25th Anniversary	16
Star Wars Chess & MPC	15
The Seventh Guest	10
Top 201 Games	8
US Atlas v3.1 MPC	12
US History DOS/MAC	14
Window Program	8
World Atlas v3.2 MPC	9

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Microsoft Office Pro 4.3 (OEM)	Add 338

ADVERTISER BY CITY INDEX

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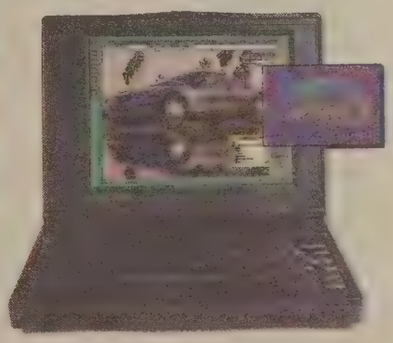

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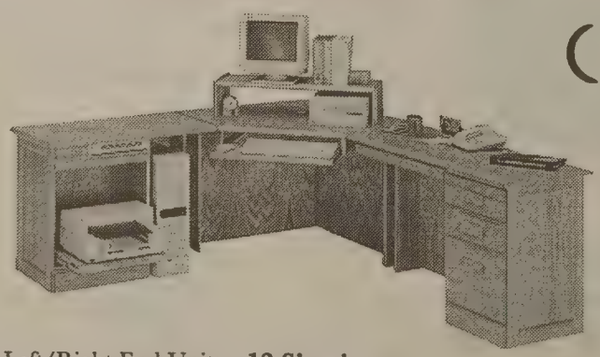
ADVERTISERS INDEX

AARDVARK COMPUTER SOLUTIONS 339
A T & T 56
A&A TECHNOLOGY 65
ACCESS COMPUTER TECHNOLOGIES 162–169
ACME MICRO-SYSTEMS 277
ACTNET ADVANCED TECH CORP 254
AIM COMPUTERS 138
AIMNET 122
ALPHA CD IMAGING 275
ALPHA FINE COMPUTER FURNITURE 348
AMERICA COMPUTER 7
AMERICAN COMPUTER RESEARCH 61
AMERICAN MULTI SYSTEMS 13
AMT INTERNATIONAL 144
APPRO INTERNATIONAL 295
APEX RESEARCH 62
ARM COMPUTER, INC. 108
AROMA TECH INC. 152–154
ART MULTIMEDIA SYSTEMS 146
ASA COMPUTERS 148–151
ASTRON COMDESK, INC. 56
ATMAN PC COMPUTER 250,251
AUTHORIZED TECHNICAL SERVICES 246
AVISION LABS, INC. 58
B-WARE 89
BACKYARD COMPUTER SYSTEMS 284
BAY COMPUTER 281
BCSA COMPUTERS 63
BELMONT SYSTEMS, INC. 140
BEST INTERNET COMMUNICATIONS 130
BETA NINETIES COMPUTER 115
BG COMPUTER 276
BIG BANG TECHNOLOGY 293
BOLD DATA TECHNOLOGY 14,15
C & J COMPUTERS INC. 127
C.G.I. TECHNOLOGY 327
CABLE & ACCESSORIES 214
CAC, COMPUTER APPLICATIONS CO. 19
CALIFORNIA COMPUTER COMPANY 69
CALIFORNIA COMPUTER EXPO 296
CALIFORNIA INTERNET 132
CARDWARE LAB 68
CBM COMPUTERS 10
CC NET 112
CENTER FOR ELECTRONIC ARTS 275
CENTRAL COMPUTER SYSTEMS 98–104
CHICOTEC 305
CLARITY TEKNOWLOGY EDUC. CTRS. 70
COMART BUSINESS SYSTEMS 249
COMMEND LINE COMPUTER 20,21
COMP EXPRESS 157
COMPU DATA 252
COMPUMART 97
COMPURUN SYSTEMS 273
COMPUTER SELECTION 92,93
COMPUTER SHOW & SALE 294
COMPUTER SYSTEMS UNLIMITED 60
COMPUTERLAND OF SERRAMONTE 31
COMTEK COMPUTERS 283
CPU & MEMORY EXCHANGE CLUB 54
CRL 112
CUPERTINO COMPUTER 12
CYPRESS COMPUTERS 45
DENNIS INTERNATIONAL 320
DIGITAL MERCHANT SERVICES 90
DISK DRIVE DEPOT 3
DOMINO COMPUTER 11
EFI'S DISCOUNT COMPUTER 132
ELMA ELECTRONICS 214
EMPAC INTERNATIONAL 107
ENVISIONS SOLUTIONS TECHNOLOGY 29
ESSEX PORTABLE SOLUTIONS 50
EVERGREEN COMPUTER INT'L 312,313
EVERNET EDUCATION SERVICES 78
EXCEL MICRO SOLUTIONS 294
EZ COM 108
FASTLINK NETWORK PRODUCTS 81
FINE TEC 24
FRY'S ELECTRONICS 2, 177–207,351
FUTURE COMPUTING SOLUTIONS 59
GIGABYTES 325
GOLDEN MICRO COMPUTER 91
GOLDEN VALLEY SYSTEMS 106
GRANITE - DIGITAL 212
GREAT MALL COMPUTERS 139
GT COMPUTER 71
HALTED SPECIALTIES 307
HD COMPUTER 34–41
HERB'S DISCOUNT SOFTWARE 284
HI-TECH USA 342–345
HIQUALITY SYSTEMS, INC. 133–137
HITRON SYSTEMS 158,159
HKG COMPUTERS 243
HOOKED 17
INNOCOM SYSTEMS 317
INPUT AUTOMATION 80
INTELESYS 74,75
INTERNATIONAL MODULE DESIGN 325
INTERNET LITERACY CONSULTANTS 106
INTERNEX TIARA 113
IPC TECHNOLOGIES 347
IQ INFOQUEST COMPUTER 72,73
ISDN TEK 109
ITS CD 260
J & K TECHNOLOGY 23
JAC INDUSTRIAL, INC. 10
JDR MICRODEVICES 47
JEMINI ELECTRONICS 262,263
KINGSTAR COMPUTER 9
KONICOM 248
KUDO NET 130
LAITRON COMPUTER 298–301
LAN TREK 48,49
LAP-TOP SUPERSTORE 320
LEGEND COMPUTER 95
LINDEN MICROTECH 43
LOGITECH FACTORY OUTLET 87
LTI LEOPARD TECH (FORTUNE MICRO, INC.) 309
LUMIS INTERNATIONAL 26
M.A.C. 161
MARKET PRO 294
MAX GROUP 265
MEI MICROCENTER INC./WINBOOK 5
MIC COMPUTER 121
MIRACLE COMPUTER 269
MULTI MICRO SYSTEMS 175
MULTIMEDIA LIVE 130
MULTIMEDIA PUBLISHING CORP 67
MYRIAD, INC. 131
NCA COMPUTER PRODUCTS 215–241
NETIS TECHNOLOGY 297
NETWORK ASSOCIATES 117
NEW RIVER 245
NORDIC COMPUTERS 249
PACIFIC COMPUTER PRODUCTS 52,53
PALO ALTO MICRO 321
PARAMOUNT COMPUTER 27
PARS INTERNATIONAL COMPUTER 66
PC CHANNEL 90
PC TEN 143
PC WAREHOUSE 57
PERFECT SOLUTION MULTIMEDIA 261
PIXEL USA COMPUTER 314,315
PRESTIGE COMPUTER 278,279
PROMOX SYSTEMS 319
QIC 143
QUOTATION HOTLINE 32,33
RAINBOW COMPUTER 267
ROBERT AUSTIN CORP 62
SAN FRANCISCO COMPUTER CENTER 253
SCHWAB COMPUTER CENTER 147
SCSI WORKS 285–287
SDM CORPORATION 341
SEEWHY COMPUTER SYSTEMS 89
SIGMA COM 213
SILICON SOLUTIONS 321
SOFT SOLUTIONS 311
SONGTECH INTERNATIONAL, INC. 276
SONIC COMPUTER 25
SPIDER GRAPHICS 145
STORAGE SYSTEMS ENGINEERING 12
SUPERCOM 352
SVII INTELYSIS 118
SYMPHONY COMPUTER 270,271
TCP/IP EXPO 111
TECHNOLAND 209
TOP DATA 329
TOWER COMPUTER 18
TRANSWELL COMMUNICATION 322
TRUECOMP AMERICA, INC. 79
UMIRACLE MICROSYSTEMS 82–84
UNITED MICROSYSTEM, INC. 119
UNIVERSAL COMPUTER PRODUCTS 142
USM DISTRIBUTORS 288,289
V-88 SYSTEMS 88
VANCOM SYSTEM HOUSE 77
VANISHED CHILDREN'S ALLIANCE 275
W & K INTERNATIONAL 257
WEDGE TECHNOLOGY 129
WESTCON 50
WINBOOK 5
WINNER'S CIRCLE 51
WIT INTERNATIONAL 125
WORLD-NET MICROSYSTEMS 330,331



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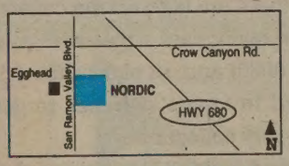

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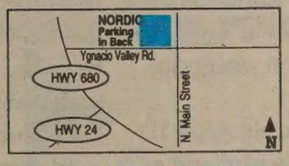

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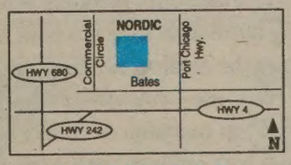

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Junk Or History?

Time Will Tell

I was complaining on my syndicated radio show, *Software/Hardtalk* (Wednesday 10 am, KALW in the Bay Area—yes, a plug-ola) about how my Mom tossed out my old comic books which included an original copy of the rare *Panic* magazine—an early *MAD* magazine clone done by the same publisher, EC. This was during a conversation with a guy who produces a database management system that is designed to catalog all the world's greatest comics.

Since I don't collect comics it seemed like an appropriate thing to discuss: throwing away what is perceived as junk. Everyone does it. People have become millionaires finding old oil paintings that other people tossed away or gave to someone who could not care less about owning an oil painting.

Well, many of our closets are filled with oddball computer gear and we have to make the hard decision: exactly what we ought to do with these old dogs.

One Man's Junk

Last week I was at a garage sale, and someone was selling an old TI Silentwriter for $5, and I wondered if I should buy it as a collectible.

Like I need stuff like this!

Well, some people will collect the Silentwriter, and someday it may be worth a quarter of a million dollars, for all I know. And I have to admit I have collected a few items, and believe many old machines will be worth something more than they are now, if only as a donation to the local technology museum (every city will have one—you watch!).

The top machine to collect is the old Apple I, which isn't really a computer, but a card and a bunch of parts that the buyer was required to solder together and then probably regretted the experience. It's worth about $2000 or more already.

The early days of microcomputerdom produced many interesting machines and tons of weird subsystems. I expect that, like antique autos, many of these things will never be seen again, and will be only vaguely remembered by old-timers who will say, "Yeah, yeah! I remember *that*!"

The Good, The Bad, The Weird

We now have a last-ditch opportunity to grab one or more of the old machines for our collection. Ideally it should be in working condition.

My top pick to click is the old SOL-20 computer (circa 1977), a machine that should have knocked Apple off the block except for one or two things. One: It wasn't in color. Two: The company closed down!

The best add-on for the SOL-20 was a Northstar 5 1/4" floppy. Northstar was the first company to use the 5 1/4" floppy for a small computer. The thing required hard-sectored diskettes that had ten holes in them. The storage capacity of a Northstar disk was 70K. A double-density controller released a few years later provided a whopping 140K!

The real collector's item, though, to go along with a SOL-20, is an old Helios 8" floppy add-on. I don't know if any of these dogs ever worked; they had a horrible reputation. If you can't get a SOL, then look for the famous Exidy Sorcerer (circa 1978). It was SOL compatible. A clone market that never took off.

Many old-timers think that the old Altairs (the original personal computer) and IMSAIs (the original clone) are high on the collectibility list. They were really card cages with a microprocessor (an 8080) and an old-fashioned front panel. You had to toggle switches to get it to boot. Both are very collectible.

I'd recommend looking for some of the oddball machines of those days. The Digital Group computers (the original not-invented-here, "we do it our way," then subsequently broke micro firm), the Equinox with its octal front panel in a world of hexadecimal, and, above all, the Sphere. The Sphere was highly promoted; with its 6800 microprocessor it started a fad of dead-end 6800 machines. Even Altair made a short-lived 6800 machine. The 6800 machines were such duds that it allowed Motorola to design the 68000 without worrying about backward compatibility—something Intel wishes it did.

Nobody should overlook a vintage Osborne 1, an Apple III, a John Deere (if anyone has one, *Call Me*—we need to talk), the old IMSAI VDP-80 and VDP-40s, the IBM 5100 (the world's slowest BASIC computer also ran APL from ROM), a Polymorphic (preferably with the three floppy drives), a Southwest Technical Products Computer, the original Heath machines, or any other pre-1980 machine. Also look for an old Jupiter. The company made so few of these that they shipped them to reviewers wire-wrapped and unsoldered. One gullible reviewer thought this was the greatest thing he'd ever seen because of the "space age" wire-wrapped connections. No kidding!

When I reminisce about old clunkers I always recall the peculiar Byte-8—a machine made by the Byte Computer stores. Known for its mediocre power supply, the machine sold poorly and was only on the market for six months or so. I think it's an ultimate collectible. Some years later Computerland did a branded machine. I had a review copy of a Computerland machine and they demanded I return it even when I offered to buy it. It must be a heckuva collectible.

I've written about collecting old machines like this for years and there is always one machine I fail to mention: the original IBM PC. I now believe it may become the most collectible of all. Put yours someplace where Mom won't get to it!! ■

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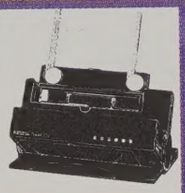
DeskJet 320 Portable Printer



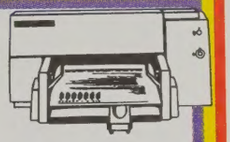
- Crisper, blacker blacks with 600 x 300 dpi printing plus HP's Resolution Enhancement Technology
- Compact, portable design fits neatly into a briefcase
- Easy-to-add color with an optional HP Color kit (sold separately) just snap in the cartridge and print

#1952331

$289

HEWLETT PACKARD Authorized Dealer

DeskJet 660C Color InkJet Printer



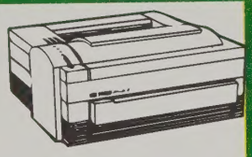
- Prints up to 4 pages per minute in black and white
- Prints on postcards, legal-size and everything in between
- 600 x 300 dpi printing with HP's Resolution Enhancement Technology
- ColorSmart technology
- 3-Year Warranty is the longest in the industry

#2021933

$474

HEWLETT PACKARD Authorized Dealer

LaserJet 4L



- 26 built-in scalable typefaces let you shrink and enlarge type to thousands of sizes.
- 300 DPI Laser printing with HP Resolution Enhancement Technology and microfine toner for smooth, sharp text and graphics.
- 1MB standard memory with Memory Enhancement Technology effectively doubles your printer memory.

#1786963

$475

HEWLETT PACKARD Authorized Dealer

LaserJet 4 Plus

The BEST print quality in the industry

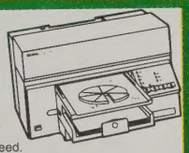
- 12 pages per minute engine and 25MHz RISC processor for faster printing
- True 600 dpi print quality for clear, crisp text and graphics
- Resolution Enhancement Technology and microfine toner for superior output quality
- Easy to set up and use
- Duplex option (sold separately)

#1908697

$1349

HEWLETT PACKARD Authorized Dealer

DeskJet 1200C



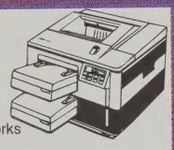
- 600 x 300 dpi black text at up to 7 pages per minute produces high-quality output at business speed.
- 300 dpi color at 1 to 2 minutes per page creates fast, high-quality output with bold, brilliant colors and true black.
- Plain-paper printing for both black and color saves money and allows convenient use of common office paper stationary.
- Built-in high-speed Centronics interface and optional HP JetDirect cards provide powerful, flexible connectivity.

#1786974

$957

HEWLETT PACKARD Authorized Dealer

LaserJet 4Si



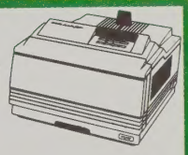
- Expandable and flexible, excellent for networks
- Fastest HP LaserJet printer at 17 ppm
- Multiple language capability with auto switching
- True 600 x 600 dpi printing with REt and microfine toner
- 75,000 page/ month duty cycle and flexible paper-handling
- HP quality and reliability

#1779583

$2799

HEWLETT PACKARD Authorized Dealer

LaserJet 4V



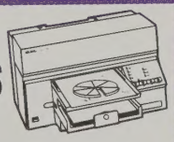
- HP's fastest desktop printer
- Crisp 600 x 600 dpi print quality
- 16-ppm engine speed
- 33Mhz RISCprocessor with I/O buffering for unparalled performance.
- Handles a wide range of paper sizes including 11 x 17.

#1952320

$1889

HEWLETT PACKARD Authorized Dealer

DeskJet 1200C PS For Mac & DOS



- 600 x 300dpi black text at up to 7 pages per minute.
- Postscript™ Level 2 Localtalk & PCL5 support.
- 300dpi color at 1 to 2 minutes per page creates fast, high-quality output with bold, brilliant colors and true black.
- Plain-paper printing for both black and color.
- Both Macintosh and DOS environment.

#1786985

$1529

HEWLETT PACKARD Authorized Dealer

ScanJet 3P Grayscale Scanner

- This small footprint home or office scanner includes software for graphic editing, OCR and software to emulate a copier on your home printer.
- 300 dpi
- 256 Grayscale

FOR PC
HP C2577A
#1957705
FOR MAC
HP C2579A
#1957691

YOUR CHOICE!

$349

HEWLETT PACKARD Authorized Dealer

LaserJet 4M Plus

The BEST print quality in the industry

12 pages per minute printing for Macintosh and mixed Mac/Pc environments
True 600 dpi output • AdobeTM PostScriptTM Level 2 and enhanced HP PCL 5 printer languages.
80 scalable typefaces - 35 Adobe Type1, 35 Intellifont, 10 TrueType™
6MB standard, expandable up to 38MB, 250 sheet paper tray and 10-envelope multipurpose tray.

#1914571

$1849

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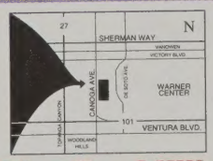

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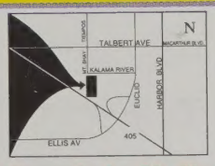
(818) 227-1010



Fountain Valley
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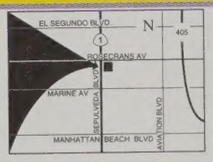
(714) 378-4400
(714) 378-4444



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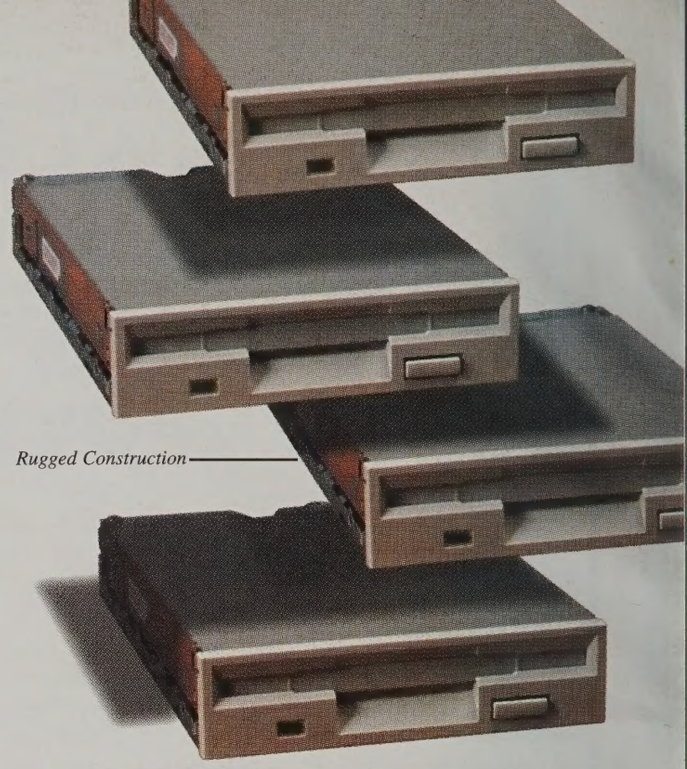
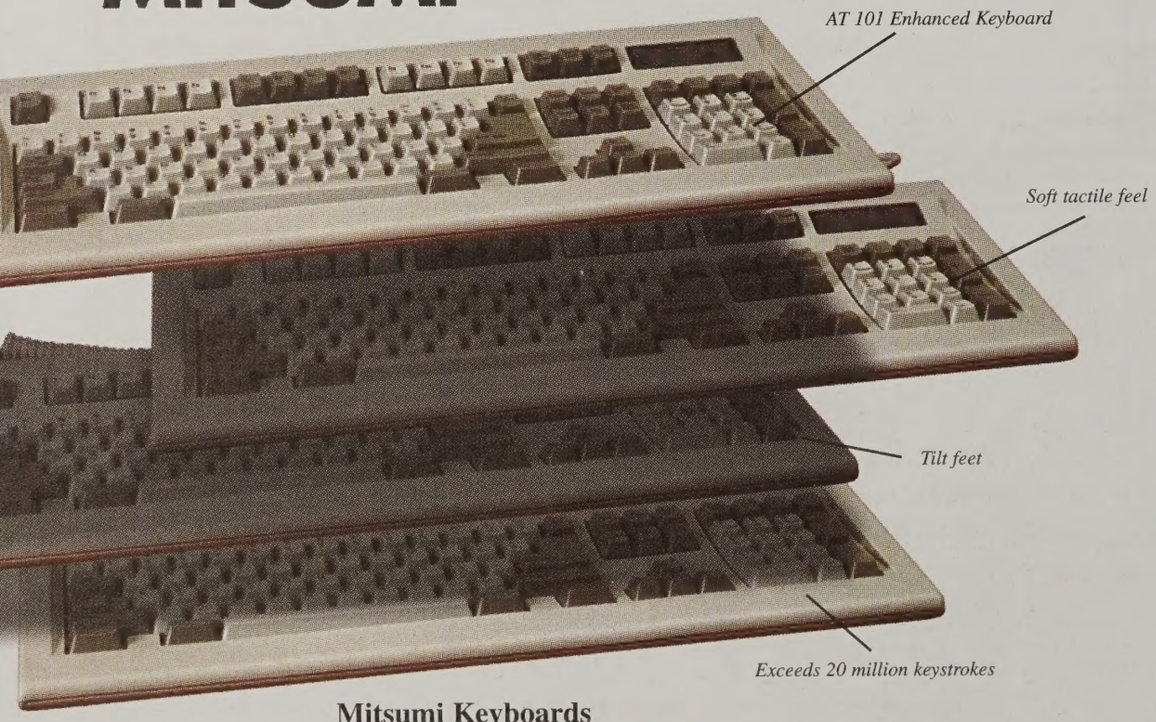


Mitsumi Floppies

intel inside pentium PROCESSOR

MITSUMI



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